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NOTES ON CHASTA COSTA PHONOLOGY AND MORPHOLOGY

BY EDWARD SAPIR

PHILADELPHIA

PUBLISHED BY THE UNIVERSITY MUSEUM

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NOTES ON CHASTA COSTA PHONOLOGY AND MORPHOLOGY.

INTRODUCTION.

In a large part of southwestern Oregon and contiguous territory in northwestern California were spoken a number of apparently quite distinct Athabascan dialects. The territory covered by tribes or groups of villages speaking these dialects embraced not only a considerable strip of Pacific coast¹ but also much of the interior to the east (Upper Umpqua and Upper Coquille rivers, lower Rogue river, Chetco creek and Smith river); some of the tribes (such as Tolowa and Chetco) were strictly coast people, others (such as Galice Creek and Umpqua or Akwa²) were confined to the interior. some of the Athabascan dialects spoken south of the Klamath in California, particularly Hupa and Kato, have been made well known to students of American linguistics, practically nothing of linguistic interest has as yet been published on any of the dialects of the Oregon-California branch of Pacific Athabascan. It is hoped that the following imperfect and fragmentary notes on one of these dialects may prove of at least some value in a preliminary way.3

¹ Outside of a few points in southern and southeastern Alaska (Cook Inlet, mouth of Copper river, Portland Canal) this is the only region in which Athabascan tribes have found their way to the Pacific.

² My ⁽ denotes nasalization.

³ The material for these notes was secured in a very incidental manner. While the writer was at work on Takelma in the latter part of the summer of 1906, he was living with Mr. Wolverton Orton, a full-blood Chasta Costa Indian. At odd moments Mr. Orton and the writer whiled away the time with Chasta Costa.

The Chasta Costa (or Cis/ta q!wAs/ta) Indians, now gathered in Siletz Reservation in western Oregon, formerly occupied part of lower Rogue river; between them and the coast were other Athabascan tribes or villages of practically identical speech, above them to the east were the unrelated Takelma.⁴ Among these tribes of nearly or quite identical speech were the $Y\dot{u}^u/gw\bar{\imath}$ or Euchre Creek people, the $Tc\hat{e}'/m\hat{e}$ dA/ne or "Joshuas" of the mouth of Rogue river, the $D\bar{u}/t$ " d $dA/n\bar{\imath}$, the $M\bar{\imath}/k!u/n\dot{n}^u dA/n\bar{\imath}$, and the $GwA/s\dot{a}$. All these formed a linguistic unit as contrasted with the coast people $(\bar{a}/\gamma \delta s/ta)$ "lower tribes") or, as they are now commonly called by the Indians of Siletz, "Sol Chuck" Indians, a Chinook Jargon term meaning "salt water, coast" people; the dialect of these coast tribes was probably identical to all intents and purposes While Chasta Costa and Coast Athabascan with Chetco. are thus more or less distinct, they seem to have been mutually intelligible without very much difficulty, the coast dialect sounding merely somewhat "strange" and "drawn out" to a speaker of Chasta Costa. At least three other Athabascan dialects of this region, however, seem to have differed so much from Chasta Costa as to be but partly understood, if at all, by speakers of the latter; these are Upper Umpqua, Upper Coquille, and Galice Creek.

⁴ It has already been pointed out (American Anthropologist, N. S., 9, p. 253, note 2) that there is reason to believe that J. O. Dorsey was incorrect in assigning the Chasta Costa villages above those of the Takelma (see his map in Journal of American Folk-Lore, III, p. 228). On p. 234 Dorsey gives a list of Chasta Costa villages.

PHONOLOGY.

Vowels.

Vocalic quantity is of considerable importance in Chasta Costa, not so much etymologically as phonetically. On the whole, long and short vowels interchange on regular mechanical principles; open syllables (that is, syllables ending in a vowel) with long vowel regularly shorten this vowel when the suffixing of one or more consonants to the vowel makes the syllable closed. Examples of a thus varying with \bar{a} are:

 $d\bar{o}/y\acute{a}c/t!a$ ''I won't fly;'' $d\bar{o}/y\acute{a}t/t!a$ ''we won't fly'' (cf. $d\bar{o}/y\dot{a}/t!a$ ''he won't fly'')

 $d\acute{a}\theta/d\bar{a}$ "he is sitting down" (cf. $d\bar{a}/\theta A\theta/d\bar{a}$ "I am sitting down")

 $tc!\acute{a}sL/se$ "he cries;" $tc!\acute{a}cL/se/t$ " shall cry" (cf. $tc!\bar{a}/\theta il/se$ "you cry")

 $tc!a/\gamma \acute{a}sL/se$ "they cry" (cf. $tc!a/\gamma \dot{a}/\theta il/se$ "we cry") $nac/t!\dot{o}$ "I swim" (cf. $n\dot{a}/tc!\bar{\imath}/t!\dot{o}$ "you bathe")

⁵ Hupa examples are taken from P. E. Goddard, "The Morphology of the Hupa Language," Univ. of Cal. Publ. Amer. Arch. and Ethn., 3.

⁶ Carrier examples are taken from Rev. A. G. Moriee, "The Déné Languages," Transactions of the Canadian Institute, I, pp. 170–212.

An example of \hat{e} shortened to e is:

 $n\acute{e}s/ts!At/\bar{\imath}$ "I am seen" (cf. $n\acute{e}'/ts!At/\bar{\imath}$ "he is seen")

Original long vowels may lose their quantity even in an open syllable, provided they are immediately followed or preceded by a syllable with relatively strong accent. Such are tc/a-, na-, and ne- in:

 $tc!a/\gamma \dot{a}/\theta il/se$ "we cry;" $tc!a/\gamma \dot{a}sL/se$ "they cry" $ne/n\dot{o}/ts!At/\bar{\imath}$ "we are seen" $t\dot{a}$ $na/dit/t!\ddot{o}$ "don't bathe;" $(na/dit/t!\ddot{o}$ is phonetically

enclitic to strongly accented $t\hat{a}$; contrast $n\bar{a}/d\hat{i}t/t!\bar{o}/t'e$ "you will bathe")

In general, however, stress accent cannot be said to be particularly well marked in Chasta Costa.⁷ Each syllable is a fairly well-defined phonetic unit tending to hold its own against others, so that an approximately level accentual flow with but few peaks results. Such writings as $n\bar{a}/dit/t!\bar{o}$ and $tc!\bar{a}/\theta il/se$, with apparent accent preceded by long vowels, are doubtless but imperfect renderings of forms with level stress on first and second syllables (they might perhaps better be written $n\bar{a}/dit/t!\bar{o}$ and $tc!\bar{a}/\theta il/se$ with secondary accent on second syllable). It does not seem that every vowel in an open syllable is organically long; thus e in future -t'e and in -de of t' $w\bar{\imath}/de$ "everything" is regularly short. Many such cases are, however, probably only apparent, the short vowel being followed by a glottal stop; thus plural ya- of $ya/dAt/n\bar{\imath}$ "they make a sound" should doubtless be ya'-.

Short a of closed syllables is regularly reduced from long \bar{a} ; original short a becomes a in a closed syllable. Examples of a thus dulled from original a are:

t'Ac/yAc/t'e "I shall go" (cf. $t'e/\theta ic/ya$ "I go;" -yAc = Hupa - yauw)

⁷ Weak stress accent seems characteristic of Athabascan generally. Father Morice goes so far as to say, "there is no accent in Déné" (op. cit., p. 173).

```
n\bar{a}/xAn/d\bar{o} "eight, two less" (n\bar{a}/xA- = \text{Kato}^8 nqk/ka^\epsilon "two") d\bar{o}/na/\gamma Act/xw\bar{\imath} "I do not vomit" (cf. na/\gamma \dot{a}/\theta A\theta t/xw\bar{\imath}^9 "I vomit") t'Al/dAc "he runs" (-dAc = \text{Hupa} - dau\underline{w}) \gamma An/na/Ac "he will bring" (-'Ac = \text{Hupa} - au\underline{w}) t'\dot{e}/An/\gamma it/lAt "we are sinking" (cf. t'e/nit/lat" "we drown;" Hupa -lat, -la "to float")
```

Not to be etymologically confused with this A is inorganic Whenever a consonant is not followed by a definitely determined vowel and yet, for some reason or other, is not phonetically appended to the preceding syllable, it must begin its own syllable and takes an inorganic, in other words etymologically meaningless, A-vowel after it. This syllable may either be completed by a consonant of etymological value (such as first person singular c, verb class signs l, l, l) never followed by a definite vowel or, if it is immediately followed by a syllable beginning with a consonant, this consonant is borrowed to complete the inorganic syllable (-t closes inorganic syllables preceding d-, t!-, dj-, tc!-, ts!-, t\theta!-, tc'-, t!-), so that a doubled consonant results of which the first half is of no etvmologic significance. In some cases, however, as before γ -, and in rapid speech generally, this inorganic consonant is not always distinctly heard; yet in syllabifying words Mr. Orton completed such inorganic syllables with a consonant with mechanical regularity. These syllables with inorganic vowel and consonant are characteristic not only of Chasta Costa but also of Hupa and Kato and doubtless other Athabascan dialects as well. The general phonetic tendency to speak in definite syllables and the further tendency to limit short vowels to closed syllables explain these characteristic Athabascan

⁸ Kato examples are taken from P. E. Goddard, "Kato Texts," Univ. Cal. Publ. Amer. Arch. and Ethn., 5, 65–238; and "Elements of the Kato Language," ibid., 11, 1–176.

 $^{9 - \}bar{a}$ - may be secondarily lengthened from -a-.

```
t'Ac/yAc/t'e "I shall go" (t'A-=t'- reduced from t'e-) d\bar{o}/y\dot{a}/xAt/t!a "they won't fly" (xAt-=x-) n\bar{a}/xAt/dAl/nic "they work" (xAt/dA-=x/d-, d- reduced from de-) d\dot{a}/xAn/nAt/t'Ac "they go to bed" (xAn/nAt-=x/n-) t'e/An/\gamma Al/lAt "he is sinking" (xAn/nAt-=x/n-)
```

Many syllables with final consonant and A- vowel must be considered as radical or at least unanalyzable elements. In not all such cases is A a reduced form of a; where A seems a primary vowel, as shown by comparison with other Athabascan dialects, it seems best to consider it an organic element in the syllable, though it remains plausible that at last analysis it is but a reduced form of some fuller vowel. Thus, while -yAc has been shown to represent an original -yac (Hupa -yauw), $-t^*Ac$ contains a primary A, as shown by comparison with Hupa $-t\bar{u}w$ "to lie down" (ultimately $-t^*Ac$ is doubtless -t", reduced from $-t^*e$, and suffix -c).

Inorganic A sometimes becomes palatalized to i, though there is not enough material available to make it certain just when this change takes place. Examples of this secondary i have been found before c (but not before its developments s and θ) and s derived from tc (but not before original s or its

development) when itself preceded by m, n, or θ (preceding γ , however, tends to preserve A). Examples are:

```
mis/ki^{10} "gull" (cf. Kato b\hat{u}tc/k'ai^{\epsilon})
nic/ya "I come" (nic- = cessative n- and first person singular c)
nic/dac "I dance"
t'e/nic/lat "I drown"
t'e/\theta ic/ya "I go" (\theta ic- = durative \theta- and pronominal c;
cf. t'\epsilon\theta/ya "he goes" without vowel after \theta)
tc!A\gamma/\gamma e/\theta ic/ya "I eat"
\gamma e/\theta ic/\bar{\imath} "I saw him" (cf. c/\gamma \epsilon\theta/\bar{\imath} "he saw me")
\theta ict/s\bar{\imath} "I let him"
```

With $-\theta ic$ - contrast $-\theta A\theta$ - (both from original *-sAc-) in $d\bar{a}/\theta A\theta/d\bar{a}$ "I am sitting;" with $-\theta icl$ - contrast -sAsl- (from original -*sAcl- and -*sAcl- respectively) in $tc!\bar{a}/sAsl/se$ "I am crying." $-\gamma ic$ -was heard in $y\bar{a}/\gamma ic/t!a$ "I fly," but as this is an isolated example (contrast $-\gamma Ac$ - in $n\dot{a}/da/\gamma Act/t!\bar{o}$ "I bathe" and $-\gamma Acl$ - in $\gamma Acl/Az$ "I sneezed"), it seems possible that this form was misheard for $y\bar{a}/\gamma Ac/t!a$. Besides -nic- also -nAc- is met with: $d\dot{a}/nAc/t'Ac$ "I go to bed" and $n\bar{a}/nAc/An$ "I stop him;" it is probable that in these forms -nA- is a reduced form of ne- (cf. Hupa $tcin/ne/t\bar{u}\underline{w}$ "she goes to bed") and thus not directly comparable with -ni- of -nic-. Unaccented A, itself reduced from a, has in one case (-yAc "to go") been found further palatalized to i: $d\bar{o}/t'Ac/yic$ "I'll not go," $t\dot{a}/t'\bar{\imath}/yic$ "don't go!" (cf. t'Ac/yAc/t'e "I shall go"); this -yic contracts with directly preceding t'A- into -t'Ac: $d\bar{o}/t'Ac$ "he won't go."

Original Athabascan ai has in Chasta Costa become monophthongized to $\bar{\imath}$. Examples are:

 $t/g\bar{\imath}$ "white" (cf. Kato L/gai)

¹⁰ Should probably be mískli'.

¹¹ With this-t'ac Kato ta/cac in dō/ta/cō[€] ta/cac "not anywhere I went" (P. E. Goddard, "Kato Texts," Univ. Cal. Publ. Amer. Arch. and Ethn., 5, No. 3, p. 182, 1. 17) is in striking agreement.

```
mis/k!i'^{12} "gull" (cf. Kato b\hat{u}tc/k'ai^{\epsilon}) h\bar{\iota}^{i13} demonstrative "that" (cf. Hupa hai)
```

au as organic diphthong seems to occur but rarely in Athabascan. If $d\bar{o}$ "no!" (cf. Hupa dau) may be regarded as distinct from adverbial $d\bar{o}$ "not" (cf. Hupa $d\bar{o}$), we would have an example of the parallel development of au to \bar{o} in Chasta Costa. Certain contractions that take place between i of first person plural -it- and second person plural $-\bar{o}$ - with preceding vowels will be spoken of in discussing the pronominal prefixes.

One of the most striking phonological characteristics of Chasta Costa is the disappearance of an original η^{14} or of its representative, nasalization of preceding vowel. Its former presence can always be proved by comparison with other Athabascan dialects that, like Hupa, still preserve it. In the case of all vowels but inorganic A nasalization has left no trace whatever, original \bar{q} (from $\bar{a}\eta$), \hat{e} (from $\hat{e}\eta$), and \bar{t} (from $\bar{t}\eta$) being reduced to \bar{a} , \hat{e} , and \bar{t} ; originally short vowels, on losing their nasalization and thus coming to stand in an open syllable, become lengthened, while originally long vowels in a closed syllable not only lose their nasalization but are shortened. Thus, a syllable $s\bar{t}$ may represent an original $s\bar{t}$ (or $s\bar{t}\eta$) or $s\bar{t}$ (or $s\bar{t}\eta$), while $s\bar{t}$ may go back as well to $s\bar{t}$ as to $s\bar{t}$. Examples of the absolute disappearance of an original η are:

```
n\dot{a}/xe "you paddle" (n\bar{a}- = *nq-, cf. Hupa n\hat{u}\tilde{n}/ya "you are about")
```

 $d\bar{o}/y\dot{a}/t!a$ "you won't fly" ($y\bar{a}$ - = *yq-, cf. Hupa $y\hat{u}m/mas$ assimilated from * $y\hat{u}\tilde{n}/mas$ "you are rolling over")

tc!ál/se/t'e "you will cry" (tc!al- = *tc!q-l-; cf. tc!áct/se/t'e "I shall cry" with -c- "I" morphologically parallel to -,- "you")

 $^{^{12}\}bar{i}$ is here shortened to *i* because of following glottal stop.

 i^{ij} denotes long $\bar{\imath}$ with weakly rearticulated parasitic i. Such "pseudo-diphthongs" sporadically occur in Chasta Costa in lieu of ordinary long vowels.

¹⁴ i. e., ng of English sing.

- $t\dot{a}/na/\gamma at/xw\bar{\imath}$ "don't vomit!" (γat = * γqt -, cf. $\gamma \bar{a}$ from * γq in $na/\gamma \dot{a}/\theta it/xw\bar{\imath}$ "you are vomiting")
- $n\acute{e}t/\bar{\imath}$ "you are looking at him" (net- = *net- ; - $\bar{\imath}$ = -'i, cf. Kato - $\bar{\imath}\tilde{n}^{\epsilon}$ "to see")
- $l\bar{\imath}$ "dog" (original Athabascan *li, * $li\eta$; cf. Hupa $Li\tilde{n}$, Montagnais l'in, Hare tl'in, Loucheux $l\acute{e}n$, Carrier li, old form $le^n n^{15}$)

Nasalized inorganic 4 seems to have acquired a palatal coloring i; this i then regularly developed to $\bar{\imath}$ in open, i in closed syllables. It thus often seems as though Chasta Costa $\bar{\imath}$, i is the morphologic equivalent, for instance in second person singular forms, of Athabascan η , an equivalence, as has just been shown, due to secondary phonetic developments. Examples of $\bar{\imath} < \bar{\imath} < 4$ are:

- $t'e/\theta t/ya$ "you go" ($\theta \bar{\imath} = *s_{A}$ -; cf. Hupa $na/si\tilde{n}/ya$ "you are going about")
- nt/dac "you dance" ($n\bar{\imath}$ = *nA-; cf. Hupa $ni\tilde{n}/yau\underline{w}$ "go!")
- $y \dot{n}/w \bar{\imath} s d \bar{\imath}/n \bar{\imath}$ "you whistle" $(d \bar{\imath} *dA ; \text{ cf. Hupa } da/din/La$ "run!" assimilated from $*da/di \bar{n}/La$
- $n\dot{a}/tc!\bar{\imath}/t!\bar{o}$ "you swim" $(tc!\bar{\imath}-=*k^{y}!_{A}-;^{16}$ cf. Hupa $na/ki\tilde{n}/-y\hat{u}\tilde{n}$ "come eat!")
- $y\bar{a}/\gamma t/t!a$ "you fly" $(\gamma \bar{\imath}-=*\gamma_{\bar{A}}-;$ cf. Hupa $ye/wi\bar{n}/ya$ "you are going in")
- $y\bar{a}/\gamma t/t/a$ "it flies" $(\gamma \bar{\imath} = *\gamma_A -; \text{ cf. Hupa } na/win/\underline{t}au$ "it will settle down" assimilated from $*na/win/\underline{t}au$)
- t'i/lat "you are sleeping" ($t'\bar{\imath}-=*t'A-$; cf. Hupa $ti\tilde{n}/xau\underline{w}/ne$ "you take along")
- verb stem -sī "to make" (cf. Hupa -tcwiñ)

¹⁶ k^y / is "fortis" palatal k, Hupa k_1 , Morice's q.

¹⁵ Morice, *op. cit.*, p. 210. Carrier has evidently undergone a development parallel to that of Chasta Costa. All northern Athabascan forms except Carrier (and Chipewyan) are taken from *R. P.* E. Petitot, "Dictionnaire de la langue Dènè-Dindjié."

Examples, in closed syllables, of i < j < A are:

 $tc!\bar{a}/\theta il/se$ "you cry" $(\theta il-=*s_4-l-;$ cf. Hupa $na/d\bar{u}/we/-sil/en/^{17}$

 $n\bar{a}/dit/t!\bar{o}/t'e$ "you will bathe" $(dit-=*d_4-t-;$ cf. third person $n\bar{a}/dAt/t!\bar{o}/t'e)$

 $t'\bar{a}/\gamma it/n\bar{a}$ "you drink" ($\gamma it = *\gamma_A - t - ;$ cf. third person $t'\bar{a}/\gamma At/n\bar{a}$)

 $y\bar{a}/\gamma il/gA\theta$ "you climb" ($\gamma il-=*\gamma_A-l-$; cf. third person $y\bar{a}/\gamma Al/gA\theta$)

 $t'il/xwA\theta$ "you cough" (t'il-=*t'A-l-; cf. third person $t'Al/xwA\theta$)

 $ne/cit/\bar{\imath}$ "look at me!" ($cit-=*c_A-l-$)

Hupa $-\tilde{n}$ (that is, our η) seems at times to correspond to Chasta Costa -n, but comparison with northern Athabascan dialects indicates that in such cases we are dealing with original -n. Thus, nAn "you," despite Hupa $ni\tilde{n}$, is shown to have original -n by Montagnais nen and Loucheux nan; dAn/tc!i "four," Hupa $di\tilde{n}k$ ($=di\eta k^y!$), does not go back to original $*dA/k^y!i$ but to $*dAn/k^y!i$ or $*dA\eta/k^y!i$ (η assimilated from n), as evidenced by Loucheux tan; ta/cAn "black" corresponds to Loucheux del-zen; similarly, dAn "in, at" must have original -n despite Hupa $di\tilde{n}$ and Kato $du\tilde{n}$ (original *dA would have given Chasta Costa $*d\bar{i}$).

Consonants.

The consonantal system of Chasta Costa, like that of most Athabascan dialects, is characterized by a lack of labial stops, though m is common; b has been found in $b\bar{o}/\theta i$ "cat," a loanword from English pussy, but seems not to occur in native words (yet cf. $tcA/p\dot{a}/yu$ "flower"). The consonants of Chasta Costa are: the labial nasal m; the dental stops t, d, t, and dental nasal n; the back stops g, q (or $q\dot{x}$), q, voiceless spirant

 $^{^{17}}$ In Hupa \tilde{n} (or nasalization) disappears in closed syllables. In such forms Chasta Costa is etymologically more transparent than Hupa insofar as -i- is a reflex of original -A-, whereas Hupa -i- is the normal inorganic vowel.

x (as in German Bach), and voiced spirant γ (as in North German Wagen); the labialized back stops k'w, gw, g!w, and spirant xw (sometimes weakened to hw); the sibilants s, c (as in English ship), θ (as in English thin), and z (voiceless lenis, intermediate between s and English z, heard in -Az "to sneeze"); the affricative palatal consonants tc, dj, and tc!; the affricative alveolar consonants ts, ts!, and affricative dental consonant $t\theta!$; the laterals l, l (voiceless spirantal l, with l, dorsal l followed by l, as variant), and l; the glottal stop ('); the aspirate l (' at the close of a syllable); and the semivowels l and l.

Of these t', q', k'w, and tc' (English ch) are aspirated surds (k' is not found, k'w has been found but once and may be considered of doubtful occurrence); (b), d, g, gw, and dj are voiceless but lenis, intermediate acoustically between surds and sonants¹⁸ (dj is intermediate between English ch and j); t!, q!, tc!, ts!, tθ!, and L! are so-called "fortis" consonants, in other words, they are pronounced with simultaneous closure of glottis but are released before the release of the glottal chords. q!, gw, and q!w (g has not been found, but very likely exists) are velar consonants; k! has not been found, 19 its place being taken by q!.²⁰ Of secondary origin are syllabically final t and k, which may be considered as voiceless stops differing from t' and k' in their lack of aspiration; they are etymologically equivalent to d and g. It is highly probable that also w, which does not frequently occur, is but a secondary development or acoustic variant of γ after o-vowels; after o-vowels γ becomes labialized to γ^w , in which both γ and w elements are so weak that one is constantly in doubt as to whether he hears

¹⁸ It is possible that these "intermediate" stops are sonant at their moment of release. ¹⁹ Unless, as seems possible, k of mis/ki "gull" was misheard for k!.

 $^{^{20}}$ ql corresponds to Hupa k_3 , g is Hupa k_2 . ql is by no means as forcible a sound as is, e. g., Chinookan ql. There is something decidedly illusive about it; the velar stop element seems to be reduced to a minimum, the glottal catch element is very strongly marked, and a weak x seems at times to precede the velar stop (e. g., $^xql\bar{a}/xA\theta$ "arrow"). Despite my familiarity with Chinookan ql, I did not often succeed in pronouncing Chasta Costa ql so as to satisfy Mr. Orton's ear. It may well be that ql is really "fortis" or glottalized x (xl); cf. Tlingit sl.

²¹ In Hupa γ has become w in every case.

 γ or w (thus $d\bar{o}/\gamma e$ - becomes $d\bar{o}/\gamma^w e$ -, $d\bar{o}/\gamma^w e$ -; similarly, what was heard as $d\bar{o}/wa$ - may really be $d\bar{o}/\gamma^w a$ -). However, w occurs also in $s\bar{a}'/wAs/ts!\acute{e}$ "sandhill crane;" $wAs/x\acute{e}$ "good."

Athabascan k', as also in Hupa, has become x in Chasta Costa:

```
xā'/tc'ú "goose"<sup>22</sup> (cf. Hupa xa<sup>23</sup>; Applegate Creek k'á'/tc'u; Kato k'a')
nā/xi "two" (cf. Hupa nax; Montagnais nak'é<sup>24</sup>)
ts!ā/xe "woman" (cf. Carrier tṣèkhè<sup>25</sup>)
tsxá/xe "child" (cf. Carrier æzkhéhkhe)
```

Analogously to this change of k' to x, original Athabascan k'w has become xw (sometimes heard as hw) in Chasta Costa. This sound is preserved as such in Kato (k'w) and Chasta Costa (xw), but seems generally to have fallen together in other dialects with original k'. Examples are:

```
hw\ddot{a} "foot" (cf. Kato kwe^{\epsilon}; Carrier ne-kh\acute{e}; Loucheux ek\rho\grave{e}) na/\gamma\dot{a}/\theta A\theta t/xwt "I vomit" (cf. Carrier khu "vomiting")
```

It seems, however, to persist as k'w in:

```
k'was/t'ā/ne "six" (cf. Hupa xōs/tan)
```

Etymologically but not phonetically distinct, both in Hupa and Chasta Costa, from these secondary x and xw are

 $^{^{22}}$ -tc u is augmentative.

²³ See Goddard, "Kato Texts," note 32.

²⁴ Petitot's 'represents aspiration.

²⁵ Father Morice represents "fortis" stops by means of points below characters.

original Athabascan x and xw. A good example of the latter is:

 $-xwA\theta$ "to cough" (cf. Carrier xwes "cough," as noun)

Athabascan sibilants and sibilant affricatives (ts and tc sounds) have undergone various modifications in Chasta Costa. Original s has regularly become θ :

 $\theta A/\gamma A t$ "grizzly bear" (cf. Carrier $sws\text{-}e^{t}wt$ "brown bear") $t\text{-}e/\theta ic/ya$ "I go" (cf. Hupa $te/s\bar{e}/ya/te$ "I am going away") $t\text{-}e\theta/ya$ "he goes" (cf. Hupa tes/ya/te "it is about to come") $-gA\theta$ "to climb" (cf. Hupa $-k_2{}^as$) $-xwA\theta$ "to cough" (cf. Carrier xwws)

Before t (or its variant L), however, s is regularly retained:

 $ts/\bar{a}/sAsL/se^{26}$ "I cry;" tc/asL/se "he cries;" $tc/a/\gamma asL/se$ "they cry" (with these forms contrast $tc/\bar{a}/\theta il/se$ "you cry")

 $na/y\acute{e}sL/s\bar{\imath}$ "he tells" (contrast $n\bar{a}/\theta\acute{\imath}t/s\bar{\imath}$ "you tell") $c\acute{A}st/s\bar{\imath}$ "he lets me" (contrast $\theta\acute{\iota}ct/s\bar{\imath}$ "I let him") $cAst/t'\dot{a}t$ "he kicks me" (contrast $\theta\acute{\iota}ct/t'\bar{a}t$ "I kicked him") $q/w\acute{A}t/dasL/n\dot{a}$ "it was lying on it"

Athabascan ts would, by analogy, have been expected to develop into $t\theta$ (as in Chipewyan), but θ seems to be regularly found instead:

 $\theta \bar{\imath}$ "head" (cf. Carrier *n-tsi* "your head;" Montagnais -thi;²⁷ Hare -kfwi; Loucheux -tchi²⁸. Kato -s $\bar{\imath}$ "head" seems to indicate that in Kato also, at least initially, s and ts fell together.

 $\theta_A/\gamma \hat{a}$ "hair of head" (cf. Montagnais éthi- ρa^{29})

²⁶-sAsL- is assimilated from *-sAcL-, -s- being here prevented from becoming - θ - because of following -s- (before L) of same syllable.

²⁷ i. e., $-t\theta i$. Petitot's th is $t\theta$. In Hare ts (or its reflex $t\theta$) developed into what Petitot writes kfw, perhaps to be understood as $k\phi$, i. e., k plus bilabial f.

²⁸ Petitot's tch is our tc.

²⁹ Petitot's ρ is γ .

t/θο "yellow, green" (cf. Montagnais del-thop "yellow;" Hare dé-kfwoy "yellow," Hupa Lit-tso "green;" Kato L-tso "blue")

In some cases *ts* seems to have become *s*:

sê "stone" (cf. Kato se; Hupa tse; Montagnais thè; Hare kfwè; Loucheux tchi; Carrier tsé)

As might be expected, Athabascan ts! has regularly become $t\theta!$ in Chasta Costa:

 $d\bar{a}/de/\theta il/t\theta!i$ "we are sitting" (cf. Hupa na/ya/del/tse, i. e., -ts!e, "they lived as before") $t\theta!A\theta/d\bar{a}$ "story"

Athabascan c is normally preserved as such (e. g., $c\bar{\imath}$ "I"). However, it is assimilated to s before s and ts!:

```
s/ts/t/d\hat{e} "my sickness" (c- "my")

n\acute{e}s/ts/t/\bar{\iota} "I am seen (-c- "I")

As/s\acute{e}/t'e "I shall cry" (from *Ac-)

s/ts/t/t/t "he will bring it to me" (c- "me")
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Assimilation of *sac to sas has taken place in:

```
tc!ā/sásL/se "I cry" (cf. tc!ácL/se/t'e "I shall cry")
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Original *sAc > *sic, however, regularly developed to θic : $tc!A\gamma/\gamma e/\theta ic/ya$ "I eat"

Original *sAc, after being assimilated to *sAs, regularly shifted to $\theta A\theta$, unless, as we have seen, it was protected by immediately following t:

```
d\bar{a}/\theta A\theta/d\bar{a} "I am sitting" (from *d\bar{a}/sAc/d\bar{a}) t'e/\theta A\theta/lat "I have been sleeping" (from *t'e/sAc/lat) tc!e\theta/t!\dot{o} "I swim across" (probably misheard for tc!e/\theta A\theta/t!\dot{o})
```

Original s, when immediately following c, also causes it to assimilate; ss, which thus results, is then regularly shifted to $\theta\theta$:

```
y\bar{a}/\gamma\acute{a}\theta/\theta e t "I threw" (from *y\bar{a}/\gamma\acute{a}c/set)
```

Athabascan tc (sometimes tcw?) is not retained in Chasta Costa, but appears regularly as s:

t/sAk "red" (cf. Kato $L/tc\bar{\imath}k$; Loucheux ditssig)³⁰ mis/k(!)i(') "gull" (cf. Kato $b\hat{\imath}tc/k'ai^{\epsilon}$)

 $s\bar{a}'/wAs/ts!\acute{e}$ "sandhill crane" (cf. Applegate Creek $tc\bar{a}'/w\acute{a}c/tc(!)e$)

 $-s\bar{\imath}$ "to make" (cf. Hupa $-t\bar{c}wi\tilde{n}$; Kato $-tc\bar{\imath}$; Chipewyan $-ts\bar{\imath}^{31}$)

-se "to cry" (cf. Chetco -swe; Hupa -tcwen; Kato -tce; Carrier -ssâ)

Chasta Costa sx is found in:

 $sx\hat{o}/l\dot{a}$ "five" (cf. Hupa $tcw\bar{o}/la$; Chipewyan $sa/s\bar{o}/la/yai^{\epsilon}$)

Athabascan tc! remains, tc! often being shifted, however, to ts! (or s'^{32}):

tc!e- verb prefix "across the water" (cf. Hupa tce-, i. e., tc!e-, "down to the beach, out of the house;" Kato tc'e-; Chipewyan ts'e- "to a body of water")

-ts!An "toward, to" (cf. Hupa - $tci\tilde{n}$, i. e., - $tc!i\eta$; Kato - $tc'\hat{u}\tilde{n}$ "; Chipewyan - $ts'\hat{u}n$)

ts!t/de "sickness" (cf. Loucheux tssik, i. e., ts!ik)

-s'at' "to be hurt" (cf. Hupa -tcat, i. e., -tc!at, "to be sick, to become ill")

There is still another set of sibilants in Chasta Costa, which go back to original palatalized (anterior palatal) k-sounds $(g^y, k^y, k^y!)$. In Kato, Navaho, Apache, Chipewyan, and other Athabascan dialects, as in Chasta Costa, these have become affricative sibilants, without, however, falling together, as a rule, with the original Athabascan tc- consonants. In Chasta Costa, k^y has become tc', $k^y!$ has become tc! (this tc!

³⁰ Petitot's tss is our tsl.

³¹ Chipewyan forms are taken from P. E. Goddard, "Analysis of Cold Lake Dialect, Chipewyan," Anthr. Papers Amer. Mus. Nat. Hist., vol. X, pt. II. Chipewyan forms taken from Petitot are referred to as Montagnais.

³² It is quite likely that tcl and tsl are here merely auditory variants of $t\acute{s}l$ (\acute{s} is midway between s and c). In Kato tc', ts' and s' also interchange.

does not vary, apparently, with ts!); for g^y I have no examples. Chasta Costa and Chipewyan are largely parallel in their development of Athabascan ts, tc, and k^y sounds:

Athabascan	Hupa	Chasta Costa	Chipewyan
dz	_		$d\vartheta$, ϑ
ts	ts	heta	$t\theta$, θ
ts!	ts!	$t\theta$!	$t\theta!$, θ '
dj	dj		dz
tc	tc(w)	S	ts
tc!	tc!	tś!, ts!	ts!
g^{y}	g^{y}		dj
k^{y}	k^{y}	tc	tc
$k^{y}!$	$k^{y}!$	tc!	tc!

There are thus three distinct series of sibilant affricatives (and of sibilants) in Chasta Costa and Chipewyan, none of which is in direct accord with the original Athabascan sounds; Hupa, it is highly important to note, reflects the original sounds almost exactly.³³ Carrier, it would seem, has also preserved the k^y -series.

Examples of Chasta Costa tc' from original k^y are:

 $dL/tc\bar{a}/\gamma t$ "big thing" (cf. Hupa $-kya/\bar{o}$ "large;" Kato $-tca^y$, -tca" "to be large")

 $^{^{33}}$ In his "Analysis of Cold Lake Dialect, Chipewyan," Goddard treats Chipewyan ts and tc as though they were one sound corresponding to Jicarilla and Navaho tc (p. 86). Examination of the various illustrative forms scattered throughout the paper, however, soon convinces one that Chipewyan ts, dz, and tsl correspond respectively to Hupa, Jicarilla, and Navaho tc(w), dj, and tcl; whereas Chipewyan tc, dj, and tcl correspond respectively to Southern Athabascan ts, dz, and tsl and to Hupa t^y , t^y , and t^y . Thus, the Southern Athabascan ts- sounds represent both original ts- sounds and t^y - sounds; perhaps there is a phonetic difference that does not come out clearly in the orthography.

As for Kato, Goddard finds no difference between tc- sounds that go back to original tc- sounds and those that correspond to Hupa k^y - sounds ("Elements of the Kato Language," pp. 16, 51). However, deictic tc'-, corresponding to Hupa tcl-, varies with ts' and s', thus suggesting ts' as the true sound; on the other hand, tc'- (to indicate indefinite third personal object) corresponding to Hupa k^yl - occurs consistently as tc' (contrast examples of tc'-, ts'-, s'- on p. 50 with those of tc'- on p. 51). It seems plausible, then, that in Chipewyan, Chasta Costa, and Kato original tc'- sounds became true tc- sounds; while original tc sounds were shifted to ts'- sounds (which are apt to be heard as either ts- or tc- sounds).

-tc'u augmentative suffix (e. g., $t\bar{t}'/tc$ 'ù "horse," literally "big dog") (cf. Hupa - $ky\bar{o}$; Kato - $tc\bar{o}$)

Examples of tc! going back to Athabascan $k^y!$ are:

dAn/tc!i "four" (cf. Hupa $di\tilde{n}k$, i. e., $di\eta k^{y}!$) $stc!At/d\acute{e}$ "seven" (cf. Hupa $x\bar{o}/kit$, i. e., $-k^{y}!it$)

 $tc!\acute{a}sL/se$ "he cries" (cf. Hupa $kya/teL/tcw\bar{u}$ "it cried, i. e., $k^y!a$ -)

tc!- verb prefix indicating indefinite object (cf. Hupa k-, ky-, i. e., $k^y!$ -; Kato tc'-)

Athabascan possessed sonant sibilants (z, j) and sibilant affricatives (dz, dj). Of these sounds z has been found in Chasta Costa -Az "to sneeze;" dj is illustrated in several forms, but, as we shall see in a moment, does not in these go back to Athabascan dj. dz has not been found, though it may exist. j, as in Kato and Hupa, has become c:

ta/cAn "black" (cf. Hupa $L\bar{u}/h\underline{w}in < *-cin$; Kato $L/c\hat{u}n^{\epsilon}$; Jicarilla $L\bar{\imath}/z\bar{\imath}$; Nav. $L\bar{\imath}/jin$; Chipewyan $del/z\hat{u}n$; Loucheux del-zen)

Chasta Costa dj results from t (unaspirated) plus y:

q!wAt/tc!At/dja "table" (<*q!wAt/tc!At/ya "whereon one eats;" -ya "to eat")

 $ya/da/\gamma it/dja$ "we are ashamed" ($<*ya/da/\gamma it/ya;$ cf. yAc in ya/dAct/yAc "I am ashamed")

Of the lateral consonants, only three (l, l, and L!) have been found in Chasta Costa. Original dl may have been preserved also, but Athabascan $dl\bar{o}$ was heard rather as t (unaspirated) plus $l\bar{o}$:

 $\gamma Act/l\bar{o}$ "I laugh" (cf. Chipewyan -dl \bar{o} , -dl $\bar{o}k$ " "to laugh") -t- is very probably third modal -t- here; while -dl \bar{o} really appears as -l \bar{o} . After c and s, l becomes l:

 $n\bar{a}/dAct/nic$ "I work" (cf. $n\bar{a}/dAt/nic$ "he works") $n\dot{a}/xwAct/ye$ "I play" (cf. $n\bar{a}/xwAt/ye$ "he plays") $q!wAt/dasL/n\bar{a}$ "it was lying on it"

MORPHOLOGY.

Pronouns.

Independent personal pronouns:

cī "I"

```
nê "we" (probably contracted
                                        from *ne/he; cf. Hupa ne/he)
nan "you"
                                     n\dot{o}/n\dot{e} "you" (plur.)
yū "he, that one"
                                     y\dot{u}/n\dot{e}, y\dot{u}n/n\dot{e} "they, those"
     (really demonstrative)
                                        (really demonstrative)
     Examples of possessive pronouns are:
     cíc/la "my hand" (cic is independent cī combined with
          possessive prefix c-; literally, "I my-hand")
     nAn/la "your hand" (that is, nAn n-, "you your-hand")
     h\bar{t} la "his hand" (h\bar{t} is demonstrative)
     c/na/\gamma \acute{a} "my eyes"
     s/ts!t/de "my sickness, I am sick"
     n/ts!ī/dé "you are sick"
     n\bar{o}/ts!\bar{\imath}/d\acute{e} "our sickness, we are sick"
     n\bar{o}/ts!\bar{\imath}/d\acute{e}/ha "your (pl.) sickness? are you (pl.) sick?"
          (-ha is interrogative)
     x\dot{o}/ts!\bar{\imath}/d\hat{e} "their sickness, they are sick"
```

Many nouns, when limited by preceding possessive pronouns, suffix -e, as regularly in Athabascan. Thus, from man "house:"

cíc/manè "my house" *nAn/mAne* "your house"

A noun followed by another with suffixed -e is to be understood as genitively related to it. Examples are:

 $dAn\hat{e}'$ $l\bar{\imath}/tc!e$ "person's dog" $(l\bar{\imath}/tc!e$ from $l\bar{\imath}$ "dog," with (290)

voicing of l- to l-; cf. Hupa $Li\tilde{n}$ "dog," $x\bar{o}/li\tilde{n}/ke$, i. e., $x\bar{o}/li\eta/k^{y}!e$ "his dog")

 $tAkAc^{34}$ $L!\bar{o}^u/le$ "bowstring" (literally, "bow's string;" cf. Chipewyan $L'\bar{u}L$ "rope," possessed form L'u/le) $g\dot{a}/yu$ $ts!\dot{t}/de$ "baby's sickness, baby is sick"

As reflexive possessive is used $x\bar{a}/dAt$ - (with $-\bar{a}/dAt$ - cf. Hupa a/d-; Carrier wdwd-):

 $x\dot{a}/dAt/l\bar{\imath}/tc!\acute{e}$ "his own dog" (used reflexively)

Of demonstrative pronouns there have been found:

 $h\bar{\imath}^i$ "that, he" (cf. Hupa hai, indefinite demonstrative and article); $h\bar{\imath}^i/t!i$ "that thing"

 $y\bar{u}$ "that one" (cf. Hupa $y\bar{o}$ "that")

yū/ne, yún/ne "those, they"

m- "it" (cf. Hupa m-; Kato b-): mAt "with it"

de seems to be used as relative in:

dé ucl/t'e "what I want"

This element is perhaps demonstrative in force and related to Hupa de in ded "this," hai/de "this."

Totality is expressed by t' $w\bar{\imath}$ "all, everything" (cf. Hupa $a/ti\tilde{n}$ "all"). Compounded with this element are:

 $t'w\bar{\imath}/d\acute{e}$ "everything" (-de is very likely related to Hupa di- in $d\bar{\imath}/h\underline{w}\bar{o}$ "something," $d\bar{\imath}/h\underline{w}e/e$ "nothing")

 $d\dot{o}/t$ ' $w\bar{\imath}/d\grave{e}$ "not everything"

t`wi/dAn ''everywhere'' (literally, ''all-at;'' cf. Hupa $a/tin/-di\tilde{n}$ ''every place'')

Nouns.

Primitive non-descriptive nouns, as in all Athabascan dialects, are relatively frequent in Chasta Costa. Monosyllabic nouns are:

BODY PARTS.

la "hand" (cf. Hupa -la; Kato -la")

³⁴ Probably to be understood as tak/gác.

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hw\ddot{a} "foot" (cf. Kato -kwe^{\epsilon}; Chipewyan -ke) \theta\bar{\imath} "head" (cf. Kato -s\bar{\imath}^{\epsilon}; Chipewyan -\theta\bar{\imath}, -t\theta\bar{\imath}) -\gamma a "hair" (in \theta A\gamma \dot{a} "head-hair;" cf. Kato -ga^{\epsilon} "hair;" Chipewyan -Ga, i. e., -\gamma a)

Animals. tc!ac "bird"
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 $t\bar{c}/ac$ "bird" $t\bar{i}$ "dog" (cf. Hupa $Li\tilde{n}$; Chipewyan $L\tilde{i}$)

NATURAL OBJECTS.

 $s\hat{e}$ "stone" (cf. Hupa tse; Kato se) $c\bar{a}$ "sun" (cf. Hupa $h\underline{w}a$; Kato ca) tAt "smoke" (cf. Hupa Lit; Kato $L\hat{u}t$)

CULTURE OBJECTS.

man "house" (cf. Hupa diminutive min-tc "hut")
L!et "matches" (originally doubtless "fire-drill;" cf. Chipewyan L'eL "fire-drill")
gōθ "camass" (cf. Hupa kos "bulbs")
L!ōul-è "(its) string" (cf. Hupa LōL "strap;" Chipewyan L'ūL "rope")

Primitive, at any rate not easily analyzed, nouns of more than one syllable are:

Persons.

BODY PART.

 $na/\gamma \hat{a}$ "eye" (cf. Hupa -na; Kato $-na^{\epsilon}$; Chipewyan -na/Ga, -na/Ge)

ANIMALS.

```
θΑγΑt "grizzly bear" (cf. Carrier sæs-elæt "brown or cross
      bear'')
mis/k(!)i(') "gull" (cf. Kato bûtc/k'ai^{\epsilon})
dís/L!ac "fawn"
dA/mel'/k\acute{e} "pelican" 35
nat/q^{\alpha}i "duck" (cf. Kato n\dot{a}^{\alpha}/q^{\alpha}i^{36})
m\bar{\imath}/tc'\dot{a}/ts!Al/n\bar{\imath} "deer"
t'e/q!ô/lec/l'e "mink"
sā'/was/ts/é "sandhill crane" (cf. Applegate Creek tcā'/-
      w\acute{a}c/tc(!)e
tc!at/tc!ús/dje "ruffled grouse, 'pheasant'"
\theta \dot{a}/gi "kingfisher"
das/nát "red-shafted flicker"
t\theta/A\theta/n\bar{a}/yat/t\theta/\delta\theta "hummingbird"
g\bar{\imath}^{i}c/tc!\acute{e} "bluejay"
n\bar{a}/ts!\dot{o}/te "horned lark"
sō's/ga/ga "robin"
ts!ā/ts!úk "wren"
kasis "barn swallow"
ga/tat/'é "crow"
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Many of these animal names, as well as some of those that follow, are probably descriptive verb forms that have become stereotyped.

PLANTS.

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tcA/p\dot{a}/yu "flower"<sup>37</sup>
m\dot{t}/t!al/t\theta A\theta "arrow-wood"
L!\bar{o}" (probably compounded with Athabascan L!\bar{o}" "grass;" cf. Hupa L\bar{o}/da-itc "an herb")
tc!At/\gamma at/ts!\dot{e} "sunflower(?)"
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³⁵ This word is humorously used to refer to Democrats, Democrat and $dA/mel'/k\acute{e}$ exhibiting some similarity in sound.

³⁶ This form was obtained independently.

 $^{^{37}}$ This word is remarkable as containing p, a sound that is normally absent in Athabascan.

dAl/si "pine" (cf. Kato $d\hat{u}l/tc\bar{\imath}k$ "yellow pine," from $-tc\bar{\imath}k$ "red")

nā/L!e "pine-nut"

dA/nAc "manzanita" (cf. Hupa $din/n\bar{u}\underline{w}$; Kato $t\hat{u}n/n\hat{u}c$ "manzanita berries;" Galice Creek $d\acute{e}/rec$)

mAt/tc!i "cat-tail" $cAc/d\dot{a}$ " "oak"

Culture Objects.

ABSTRACT.

 $t\theta/d\dot{a}$ "story"

yt/wis "whistling" (cf. Carrier yuyuz "whistling," as noun)

 $ts/\bar{t}/d\acute{e}$ "sickness" (used with possessive pronouns to indicate "to be sick")

Several animals are designated by words ending in -tc'u, an augmentative suffix, "big" (cf. Hupa and Kato animal and plant names in $-ky\bar{o}$ and $-tc\bar{o}$ respectively). Such are:

ti'/tc'i "horse" (literally, "big dog;" cf. Chipewyan $tin/tc\bar{o}$)

 $x\bar{a}'/tc'u$ "goose" (cf. Applegate Creek $k'\dot{q}'/tc'u$. These words are formed from Athabascan xa: Chipewyan xa "goose;" Kato ka")

dAc/tc'ú, des/tc'ú "grouse" (cf. Kato $d\hat{u}c/tc\bar{o}$, $d\hat{u}s/tc\bar{o}$ "grouse")

t'ét/mō/tc'u "pigeon" cu/dê'/tc'u "bald eagle"

 $\theta A\theta/dA/li/tc'u$ "owl"

tt/tc!ê/tc'u "red-headed woodpecker"

ga/sā'/tc'u "raven"

Nouns ending in $-t!\bar{\imath}$ or $-t!\bar{\imath}ni$ denote "one who has so and so." -ni is, likely enough, related to -ne of $dAn/n\acute{e}$ "person;" -ne or -n is found in many Athabascan dialects as suffix denoting "person." Examples of $-t!\bar{\imath}(ni)$ are:

 $t\bar{t}/t!\bar{\imath}/n\hat{\imath}$ "dog-owner" $d\bar{\sigma}/at/t!\bar{\imath}/ni$, $d\bar{\sigma}/at/t!\bar{\imath}$ "bachelor" (literally, "not-wife-having-person." $d\bar{\sigma}$ - "not;" at-, i. e., at! "wife," cf. Hupa $\hat{u}t$ "wife," Kato at" "sister")

Examples of noun compounds consisting of two noun stems are:

 $\theta A/\gamma \hat{a}$ "head-hair" (shortened from $\theta \bar{\imath}$ "head" and $-\gamma a$ "hair." Cf. Chipewyan $\theta \bar{\imath}/Ga$)

ga/łał gwå/yu "red-winged blackbird" (literally, "crow('s) brother-in-law." With this cf. Chipewyan da/tsa/-tcel/le "a small crow," literally, "crow younger-brother" brother".

An example of a compound noun consisting of verb and noun is:

Al/Az dAn/ne "sneezer" (literally, "he-sneezes person")

An example of a compound noun consisting of noun and adjective is:

 $tc!ac\ l/\theta o/\bar{e}$ "bluebird" (literally, "bird blue")

A characteristic type of noun in Athabascan is formed by verbs which, while remaining strictly verbal in form, are used to refer to objects, in other words, are logically nouns. As has been already noted, several nouns of more than one syllable listed above as unanalyzable are doubtless, strictly speaking, verb forms. Quite clearly verbal in form are:

 $n\bar{a}\theta/L!\dot{o}$ "paper" (cf. $nat/L!\dot{o}$ "he writes") $q!wAt/da\theta t/gAc$ "table-cloth" (literally, "it lies or is thrown

³⁸ Goddard, op. cit., p. 110.

down on top;" cf. Hupa $-k_2as$, i. e., -gas, "to throw," and wes/kas "it lay" 39)

q!wAt/tc!At/djà "table" (literally, "thereon it is eaten")
mAt/t'é/tc!At/ts!Al/lec "smoking materials" (literally, "therewith it is smoked")

NUMERALS.

- 1. ta, $t\dot{a}^a/ca$ (cf. Hupa La; Kato La/ha^ϵ)
- 2. $n\dot{a}/xi$ (cf. Hupa nax; Kato nak/ka^{ϵ}); $n\dot{a}/xi$ la "two hands"
- 3. $t'\dot{a}/\gamma i$ (cf. Hupa tak, i.e. t'ak!; Kato tak'; Chipewyan ta, ta/Ge
- 4. dAn/tc!i (cf. Hupa $di\tilde{n}k$, i. e. $di\eta k^y!$; Chipewyan $d\tilde{\iota}/G\tilde{\iota}$)
- 5. $sx\hat{o}/l\dot{a}$ (cf. Hupa $tcw\bar{o}/la$; Chipewyan $sa/s\bar{o}/la/Gai^{\epsilon}$)
- 6. k'wAs/t'a/ne (cf. Hupa $x\bar{o}s/tan$)
- 7. $stc!At/d\acute{e}$ (cf. Hupa $x\bar{o}/kit$, i. e. $-k^{y}!it$)
- 8. $n\bar{a}/xAn/d\bar{o}$ (="it lacks two, two less")
- 9. $t ilde{a} n/d ilde{o}$ (= "it lacks one, one less")
- 10. $hw\hat{e}'/\theta e$

Of numeral adverbs there were recorded:

t dt/dAn "once" (cf. Hupa $na/di\tilde{n}$ "twice," $min/L\hat{u}n/di\tilde{n}$ "ten times")

 $ta/m\acute{e}/q!e/ca$ "in one time"

ADJECTIVES.

Of adjectives, or verb stems with adjectival significance, there have been found:

was/xé, was/xá "good;" was/xé tī "dog is good" txas/xé/la "rich" (-la is verbal suffix)

 $d\dot{u}/An/d\hat{e}$ "bad" (evidently verbal in form. $d\bar{u}$ -, $d\bar{o}$ - is negative; $-d\hat{e}$ probably misheard for $-t/\hat{e}$ "to be, exist;" cf. Hupa $\hat{u}n/\underline{t}e$, i. e. An/t/e "there is")

³⁹ Goddard, op. cit., p. 281.

 $AL/tc\bar{a}/\gamma\bar{\iota}$ "big thing" (cf. Hupa $-kya/\bar{o}$ "large;" Kato -tcag)

 $t/g\bar{\imath}$ "white" (cf. Hupa -L/kai; Kato -L/gai)

ta/cAn "black" (cf. Kato $-L/c\hat{u}n^{\epsilon}$; Chipewyan $del/z\hat{u}n$)

t/sAk "red" (cf. Kato $-L/tc\bar{\imath}k$)

 $t/\theta o$ "yellow, green" (cf. Hupa $Lit/ts\bar{o}$ "green;" Kato $-L/ts\bar{o}$ "blue")

"White," "black," "red," and "yellow, green" are characterized by prefixed t(a)-, which is common as adjectival prefix also in other Athabascan dialects.

Adverbs.

Adverbs of place are:

xun "there" (cf. Hupa third personal pronoun $x\bar{o}\tilde{n}$?):

 $x\acute{u}n \ t'e/\theta i/ya$ "there you go"

 $h\bar{\imath}^i x i i n t' e \theta / y a$ "there he goes"

txún/la "where?":

 $tx un/la t'e/\theta t/ya$ "where are you going?"

 $d\bar{o}/dAt$ "nowhere" (cf. Hupa -dit- in $hai/dai/dit/di\tilde{n}$ "where;" $d\bar{o}$ - is negative)

 $dAk/g\acute{e}$ "up" (cf. Hare $t\grave{e}g\grave{e}$):

 $dAk/g\acute{e}$ $\theta ict/t$ ' $\bar{a}t$ "I kicked him up"

 $m\dot{a}^a/dAn$ "on edge" (-dAn is postposition "at;" $m\bar{a}^a-<maq-<maq-$; cf. Hupa niL/man "each side")

Adverbs of time are:

xat "then" (cf. Hupa xat "yet, right")

xā "quickly" (cf. Hupa xa "yet")

xun/dé "tomorrow" (cf. Hupa yis/xûn/de "tomorrow"):

 $xun/d\acute{e}\ d\bar{o}/wa/\gamma\acute{A}c/\bar{\imath}$ "I'll see him tomorrow"

 $xún/d\hat{e} t\theta! A\theta/d\bar{a} nAt náct/s\bar{\imath}$ "tomorrow story tovou I-shall-tell"

xun/dé t'Ac/yAc "tomorrow I'll go")

t'wt/dAn "always" (literally, "all-at"):

```
t'wi/dAn t'Al/dAc "he always runs"
                t'wt/dan as/se "I always cry"
     x_{AL}/t_{S}/t/d_{A}n "this evening" (doubtless misheard for x_{AL}/t_{S}/t/d_{A}n
           -dan is postposition "at." Cf. Hupa x\hat{u}/Le "in the
           night"):
                xAL/ts!i/dAn d\bar{o}/wan/\gamma Ac/\bar{i} "I'll see you this
                      evening"
Modal adverbs are:
     d\bar{o} negative (cf. Hupa d\bar{o}):
                d\bar{o}/t'Ac "he won't go"
                dō/t'Ac/yic "I'll not go"
                d\bar{o}/y\dot{a}/t!a "he won't fly"
                d\bar{o}/As/se "I'm not crying"
                dō/nā/dAcL/nic "I'm not working"
                d\bar{o}/\gamma Ac/\bar{\imath} "I didn't see him"
                d\bar{o}/n\acute{e}ct/\bar{\imath} "I'm not looking at him"
                d\dot{\sigma}/ucL/t'e "I do not want"
                d\bar{o}/na/\gamma Act/xw\bar{\imath} "I do not vomit"
    ta prohibitive:
                tá "don't!"
                tá/t'ī/yic "don't go!"
                ta/\gamma i/\bar{\imath} "don't see him!"
                łá/nā/xwil/ye "don't play!"
                tá/na/dit/t!ō "don't bathe!"
                tá/na/γat/xwł "don't vomit!"
    d\tilde{o}/d\dot{a}/q!e "unable"
    do /LAn "not much" (cf. Hupa Lan "much," do /Lan "little")
    d\bar{o}/wi/la "of course" (cf. Hupa d\bar{o}\tilde{n} "it is," he/d\bar{o}\tilde{n} "at
          least'')
    d\bar{o}/l\dot{a} emphatic negative (really verbal in form, "to cease;"
          cf. Hupa -lan, -lûñ with negative prefix d\bar{o}- "to quit,
          leave, desist"):
                d\bar{o}/l\dot{a} c/\gamma\bar{\imath}/\bar{\imath} "you didn't see me"
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c\dot{\sigma}^{\mu}/dj\bar{\imath} "all right" (cf. Hupa n\bar{u}/h\underline{w}\bar{o}\tilde{n}/\hat{\imath}x "properly"?)
cAt/q!we "to be accustomed to":
             cAt/q!w\acute{e} na/dAct/t!\ddot{o} "I'm used to bathing"
t!\bar{\imath}^i/xun "to keep on:"
             t!\bar{\imath}'/x\hat{\imath} ne/cAt/\bar{\imath} "he keeps looking at me"
\theta Ak/gwe "in fragments"
h\bar{o} future prefix (more properly intentive):
             h\bar{o}/y\bar{a}/\gamma ic/t!a "I'll fly"
             h\bar{o}/tc! AsL/se "he wants to cry"
             h\dot{\bar{o}}/il/\bar{\imath} \gamma it/l\bar{o} "stop laughing!"
d\bar{o}/wa future prefix (probably with dubitative coloring):
             d\bar{o}/wa/c/\gamma\bar{\imath}/t'' i'vou'll see me''
             s/ts!\bar{\imath}/d\acute{e} d\bar{o}/wa/Al/l\acute{e}' "I'll get sick" (literally,
                    "my-sickness will-become")
             d\bar{o}/wa/n\dot{a}/yan/nAt "he will upset them"
             dō/wa/tt'át/nAt "they will go to pieces"
```

Postpositions.

Athabascan is characterized, among other features, by the use of a considerable number of postpositional elements of chiefly local force. They are appended to nouns or pronominal, numeral, or adverbial stems; less often to verb forms, in which case they have subordinating force. Chasta Costa examples are:

```
-dAn "at" (cf. Hupa -di\tilde{n}):
xAL(!)/ts!\dot{t}/dAn "this evening"
t'w\dot{t}/dAn "everywhere" (literally, "all-at")
t\dot{a}t/dAn "once" (cf. ta- "one")
m\dot{a}^a/dAn "on edge"
at/dAc/n\dot{t}/dAn "when I tell him" (literally, "I-tell-him at")
```

⁴⁰ Similarly in Hupa -miL "when," as verb suffix, is doubtless simply pronominal -mi- plus postposition -L "with."

-t "with, to" (cf. Hupa -L; Kato -L):

 $xAnA\theta/t$ $n\acute{a}c/xe$ "I paddle canoe" (literally, "canoewith I-paddle")

 $t\theta/d\dot{a}$ nAl $n\acute{a}cl/s\bar{\imath}$ "I tell you story" (literally, "story you-with I-make")

 $t\theta! A\theta/d\bar{a}$ cAt $na/y\acute{e}sL/s\bar{\imath}$ "he tells me story" (literally, "story me-with he-makes")

 $m_A l/t$ 'é/ $tc!_A t/ts!_A l/lec$ "wherewith it-is-smoked, materials for smoking" ($m_A - l$ - "therewith;" cf. Kato $b\hat{u}_L$ "with it;" Hupa miL "with, in")

This same -l is probably also found attached to verbal prefix a- (used in verbs of saying):

at/dAc/nt/dAn "when I tell him" (cf. Hupa aL/-tcit/den/ne "he talked to")

-ts!An "toward" (cf. Hupa - $tci\tilde{n}$ "toward;" Kato - $tc'\hat{u}\tilde{n}^{\epsilon}$ "to, toward"):

s/ts!An/na/'Ac "to-me he-will-bring-it"

-me "in" (cf. Hupa -me "in;" Kato - $b\bar{\imath}$ "in"): $mAn/m\acute{e}$ "in house"

-me/q!e "in, around in" (compounded of -me and -q!e; cf. Chipewyan -k'e "on"):

 $mAn/m\acute{e}/q!e$ "around in house" $ta/m\acute{e}/q!e/ca$ "all in one time" (cf. ta, $t\dot{a}^a/ca$ "one")

VERBS.

As in other Athabascan dialects, the typical Chasta Costa verb consists of one or more adverbial prefixes, which may be followed in order by a deictic or third personal element, a first modal prefix, a second modal element, a first or second person subjective element, and a third modal element or "class" sign; these, not all of which need of course be present, are then followed by the verb stem itself. The stem often ends the verb form, but may be followed by one or more enclitic elements of modal or syntactic force. The verb form is fre-

quently preceded by an adverb or postposition which, while best considered as a non-integral part of the verb, forms a rather close syntactic unit with it. A pronominal object, if present, comes after an adverbial prefix but before a first modal element. Thus, the verb form $t'\bar{a}/\gamma \dot{a}/\theta \bar{o}t/n\bar{a}/h\bar{a}$ "do you (plur.) drink?" consists of seven elements: $t'\bar{a}$ -, an adverbial prefix referring to water; $\gamma \bar{a}$ -, a second adverbial element; θ -, a second modal element of durative significance; $-\bar{o}$ -, second person plural subjective pronominal element; -t-, a third modal element, probably intransitive in force; $-n\bar{a}$, verb stem "to drink;" and $-h\bar{a}$, an enclitic interrogative element. The various elements that go to make up verb forms will be taken up in the order indicated.

Adverbial Prefixes. \bar{a} -, a-, 'A- used with verbs of saying, doing, and being (cf. Hupa and Kato a-):

```
d/djAn "he says" at/dAc/nt/dAn "when I tell him" (for -t-, see under Postpositions) dd/dAt "An/t!e "there is not anywhere"
```

This a- is probably equivalent to an indefinite object, "something," indicating what is said or uttered without definitely referring to it. This comes out rather clearly on comparison with a form like $y\dot{u}/w\bar{\imath}s$ $dAct/n\bar{\imath}$ "I whistle" (literally, "whistling I-utter"), where no indefinite object a- is required, what is uttered being specifically referred to by $y\dot{u}/w\bar{\imath}s$ "whistling." That a- is somewhat in a class by itself as compared with other adverbial prefixes is indicated by its being followed in forms with indirect object by postpositive -l-.

```
y\bar{a}-, ya- "up (in the air)" (cf. Hupa ya-; Kato ya-): y\bar{a}/\gamma Act/gA\theta "I climb" y\bar{a}/\gamma A\theta/\theta et "I threw" y\bar{a}/\gamma ic/t!a "I fly"
```

It is not clear what significance is to be attached to ya- in:

```
ya/dAct/yAc "I am ashamed" ya/da/\gamma it/dja "we are ashamed"
```

```
ye- "into enclosed space (including mouth)" (cf. Hupa
     ye-; Kato ye'-, yī'-)
          ye/\gamma \acute{a}t/ne/la "he bit it"
d\bar{a}-, da- "sitting or lying on something above ground"
     (cf. Hupa and Kato da-):
          d\bar{a}/\theta A\theta/d\bar{a} "I am sitting down"
          d\bar{a}/de/\theta il/t\theta!i "we are sitting down"
          d\dot{a}/nAc/t'àc "I go to bed"
          g/wAt/da\theta t/gAc "it lies thrown down on top,"
               i. e. "table-cloth")
          q!wAt/dasL/n\dot{a} "it was lying on it"
t'e- "in the water" (cf. Hupa te-; Kato te'-):
          t'\acute{e}/An/\gamma_Ac/l_At "I am sinking in the water"
          t'e/níc/lat "I drown"
t'\bar{a}- referring to water (cf. Hupa and Kato ta-):
          t'\bar{a}/\gamma Act/n\bar{a} "I drink"
tcle- "across a stream" (cf. Hupa tce- "out of;" Kato
     tc'e- "out of;" Chipewyan ts'e- "used of approach
     to a body of water"):
          tc!e/\theta it/t!\bar{o} "I swim across"
An- implies disappearance or undoing (cf. Chipewyan
     'a-, an- "away," implies "desertion or abandonment"):
          t'\acute{e}/An/\gamma Ac/lAt "I am sinking in the water"
          d\bar{o}/w\hat{a}/An/n\bar{a}/yan/nAt "he will upset them"
an- "back, hither" (cf. Chipewyan ~a- ~an-, ai- "back,
     toward home":):
          an/\gamma t/at "come here!"
tc!\bar{a}-, tc!a- of unknown significance (cf. Hupa kya-41):
          tc!ā/sásL/se "I cry" (cf. Hupa kya/teL/tcwe "she
               heard it cry")
          tc!ásL/se "he cries"
se'- used with verb of smiling:
          s\acute{e}'/\gamma_A t/l\ddot{o} "he smiles" (cf. \gamma A t/l\ddot{o} "he laughs")
```

⁴¹ Goddard lists forms in kya-, i. e., k^yla -, under ky-; see op. cit., p. 90. It seems better however, to keep them apart.

```
tc!\bar{o}- of unknown significance (cf. Hupa ky\bar{o}-42):
           tc!\bar{o}/\gamma it/siL/la "he pointed with his finger"
           né/tc!ūc/lec "I'll bet you" 43
u- of unknown significance (cf. Hupa verbs in \bar{o}-44)
           dö/ucL/t'e "I do not want"
           d\acute{e}/ucL/t'e "what I want"
n\bar{a}-, na- indefinite movement on surface of ground or
     water; horizontality (cf. Hupa and Kato na-):
           nAn/n\dot{a}\theta/y\bar{a}/la "he went around it"
           s/ts!An/na/'Ac "he'll bring (it) to me"
           \gamma An/na/Ac/t'e "he will bring here"
           n\bar{a}/nt/An "stop him!"
           n\dot{a}/\gamma a "is going about, living"
           t/t'i \gamma_{A}n/na/'à "he brags" (literally, "high, im-
                portant he-has")
           nā/xwAcL/yè "I play"
           nā/dácL/nic "I work"
           d\bar{o}/wa/n\dot{a}/yan/nAl "he will upset them"
           nāc/L!ō "I write"
           xAnAθ/l nác/xe "I paddle canoe"
           nac/t!ō "I swim, bathe"
           na/tc!ít/de "you wash"
           nά/dacł/dè "I washed myself"
           n\bar{a}/dAt/t!\bar{o}/t'e "he'll bathe"
           n\bar{a}/x_At/d\acute{a}l/el "they'll bathe"
           t\theta! \dot{A}\theta/d\dot{a} cAl n\bar{a}/\theta\dot{\imath}l/s\bar{\imath} "story to-me you-told,
                caused"
na- "back again" (cf. Hupa and Kato na-), followed by
     third modal -t-:
           na/\gamma \dot{a}/\theta A\theta t/xw\dot{t} "I vomit"
\gammaAn- of uncertain significance (cf. Hupa w\hat{u}n- "to pursue
```

⁴² Goddard lists forms in $ky\bar{o}$, i. e., $k^y|\bar{o}$, under ky; see op. cit., p. 90. Perhaps $k^y|\bar{o}$ is compounded of $k^y|$ - and \bar{o} -.

⁴³ This tc/\bar{u} - is probably better explained as deictic tcl- followed by future imperative \bar{u} -; see note 86.

⁴⁴ Goddard, op. cit., p. 115.

or seek something; to attempt something by persistent effort''): $\gamma An/na/Ac/t$ 'e "he will bring here" t/t't $\gamma_{AN}/na/$ 'à "he brags" (perhaps "important he-seeks-to-have") ne- of unknown significance: $n\acute{e}ct/\bar{\imath}$ "I'm looking at him" (cf. $\gamma e/\theta i c/\bar{\imath}$ "I saw him'') nés/ts!At/ī "I am seen" xw(A)- of unknown significance: nā/xwAcL/yè "I play" xwAcL/ī "I believe (it)" $xwAn/n\acute{e}/\theta iL/ya$ "you win" (see under first modal ne-) $\gamma \bar{a}$ - γa -, (γ) refers apparently to "mouth": $ye/\gamma at/ne/la$ "he bit it" (γat - may, however, have been misheard for γAt -, with second modal γ -; see note 92) $na/\gamma \dot{a}/\theta A\theta t/xw\bar{\imath}$ "I vomit"

na/γā/θAθt/xwī "I vomit"
tá/na/γat/xwī "don't vomit!"
t'ā/γā/θit/nā "we drink"
t'ā/γít/nā "you drink" (or is γ- here second modal prefix?

Verbal prefixes of local force which are doubtless primarily postpositions and which are prefixed to adverbial prefixes proper are:

```
nAn- "around" (cf. Hupa -nat; Kato -na):
nAn/n\acute{a}\theta/y\bar{a}/la \text{ "he went around it"}
q!wAt- "on, on top" (cf. Hupa -k\hat{u}t "on;" Kato -k'w\hat{u}t'
"on"):
q!wAt/tc!At/dja \text{ "whereon one eats, table"}
q!wAt/da\theta t/gAc \text{ "it lies thrown down on top,}
table-cloth
q!wAt/dasL/n\grave{a} \text{ "it was lying on it"}
```

DEICTIC PREFIXES. Under this head are grouped a small number of quasi-pronominal elements of third personal reference which regularly come after adverbial prefixes, if any of these are present. They cannot be grouped with first or second personal subjective elements, as their position is quite distinct from these; first and second modal prefixes may come between. Of deictic elements there have been found:

tc!- denotes lack or indefiniteness of object of transitive verb (cf. Hupa k-, ky-, i. e. ky/-; Kato tc'-45): $tc!A\gamma/\gamma e/\theta ic/ya$ "I eat" (i. e. without specific object being designated; cf. Hupa yik/kyū/wiñ/yan "it ate") q/wAt/tc/At/dja "whereon one eats, table" $n\dot{a}/tc!il/L!\ddot{o}$ "you write" (cf. Hupa $na/kis/L\ddot{o}n$, i. e. $na/k^y!is/L!\bar{o}n$ "she made baskets") $n\dot{a}/tc!\bar{\imath}/t!\bar{o}$ "you swim, bathe" na/tc!it/de "you wash" (cf. Kato $te'/na/tc'\hat{u}s/d\bar{e}G$ "he washed it") $tc!At/t'it/\theta At$ "we wash ourselves" (cf. Hupa wa/kin/nin/seL "it was heated through") mat/t'é/tc!at/ts!al/lec "wherewith it is smoked" (somewhat doubtful, as tc!- here follows first modal prefix t'e-; but see note 77) $tc!At/t!\bar{o}$ "he sucks" (cf. Kato $tc'iL/t'\bar{o}t$ "[make] it

It is possible that in this last example tc!- is third personal subjective (cf. Hupa tc-, i. e. tc!-; Kato tc'-, ts'-, s'-), as suggested by $Act/t!\dot{o}$ "I suck" with its lack of tc!- prefix. No other plausible case, however, of third personal subjective tc!- is available, so that its existence in Chasta Costa must be considered doubtful as yet.

suck")

Generally third person singular subjective forms are distinguished by the lack of any pronominal prefix, but in certain

⁴⁵ Goddard, op. cit., p. 51.

cases deictic elements are found which are clearly third personal (subjective) in value. These are:

```
dj- (cf. Hupa tc-, i. e. tcl-; Kato tc-, ts-, s-): \frac{\dot{a}}{dj}An "he says" (verb-stem -n; cf. Hupa aL/-tcit/den/ne "he talked to them") djAn/la "he says" (cf. Hupa tcin "they say;" Kato tc'in)
```

It is quite likely, however, that djAn is to be explained as from *dyAn (dy, as we have seen, becomes dj), in which d- is first modal prefix (cf. $dt/n\bar{\iota}$ "you make a sound") and *yAn is reduced from *yen (ye- as below; -n to say).

```
ye-, ya- (cf. Hupa y-, y\bar{\bar{\omega}}- referring to other than adult Hupa; Kato y\bar{\omega}-):

nAt na/y\hat{\omega}L/s\bar{\omega} \text{ "to-you he-tells" (contrast } n\hat{\omega}ct/s\bar{\omega} \text{ "I tell")}

cAt na/y\hat{\omega}sL/s\bar{\omega} \text{ "to-me he-tells" (with second modal prefix s-, \theta-; contrast n\bar{a}/\theta t t t s \bar{\omega} \text{ "you tell")}

ya/q!\hat{\omega}/\theta ya^{46} \text{ "he eats" (contrast } tc! A\gamma/\gamma e/\theta t c/\text{ ya}/\gamma e/\theta t c/\text{ "ya}/\gamma e/\theta t c/\text{ ya} \text{ "I 'eat")}
```

x-:

 $tc!\acute{e}/xA\theta/t!\ddot{o}$ "he swims across" (contrast $tc!e/-\theta \acute{t}t/t!\ddot{o}$ "you swim across")

This x- seems to have no parallel in Hupa or Kato (is it connected with third person objective $x\bar{o}$ - of Hupa, $k\underline{w}$ - of Kato?). Were it not that $-t/\bar{o}$ "to swim, bathe" is used only of singular subjects, one might surmise that x- is really plural xA- (see below).

Among deictic elements are further to be reckoned certain prefixes that serve to indicate either plurality as such or more specifically third personal plurality. These are:

```
ya- (cf. Hupa ya-; Kato ya-):

y\dot{u}/w\bar{\imath}s ya/dil/n\bar{\imath} "we whistle" (contrast y\dot{u}/w\bar{\imath}s dact/n\bar{\imath} "I whistle")
```

⁴⁶ qle- was very likely misheard for γe -.

 $y\dot{u}/w\bar{\imath}s$ $ya/dAt/n\bar{\imath}$ "they whistle" (contrast $y\dot{u}/w\bar{\imath}s$ $dAt/n\bar{\imath}$ "he whistles")

 $\gamma \bar{a}$ -, γa -:

 $tc!a/\gamma\dot{a}/\theta il/se$ "we cry" (contrast $tc!\bar{a}/s\dot{A}sL/se$ "I cry")

 $tc!a/\gamma \acute{a}sL/se$ "they are crying" (contrast $tc!\acute{a}sL/se$ "the cries")

 $tc!\bar{a}/\gamma\dot{a}l/se/t$ 'e "you (pl.) will cry" (contrast $tc!\dot{a}l/se/t$ 'e "you (sing.) will cry")

x_A- third person plural (apparently not found in either Hupa or Kato; but cf., without doubt, Chipewyan he- "used for dual or plural of verbs in third person"):

 $y\bar{a}/xA\gamma/\gamma t/t!a$ "they fly" $(y\bar{a}/\gamma t/t!a$ "it flies")

 $d\bar{o}/y\dot{a}/xAt/t!a$ "they won't fly" $(d\bar{o}/y\dot{a}/t!a$ "he won't fly")

xAs/sé/t'e/ha "will they cry?" (As/sé/t'e/ha "will he cry?")

 $d\bar{o}/xAs/se$ "they're not crying" $(d\bar{o}/As/se$ "he's not crying")

 $n\bar{a}/xAt/dAl/nic$ "they work" $(n\bar{a}/dAl/nic$ "he works")

 $c/xA/\gamma \ell\theta/\bar{\imath}$ "they saw me" $(c/\gamma \ell\theta/\bar{\imath}$ "he saw me") $na/xAt/da/\gamma \ell \ell$ "they are bathing"

 $t'\acute{e}/An/xA\gamma/\gamma Al/lAt$ "they sink in the water" $(t'\acute{e}/An/\gamma Al/lAt$ "he sinks")

 $x_A t/t$ 'A l/la l "they are sleeping" (t'A l/la l "he is sleeping")

 $d\bar{a}/x\hat{A}n/nAt/t\hat{A}c$ "they went to bed" $(d\dot{a}/nAt/t\hat{A}c$ "he went to bed")

xAt/t' $Al/xwA\theta$ ''they cough'' (t' $Al/xwA\theta$ ''he coughs'') xA/Al/Az ''they sneeze'' (Al/Az ''he sneezes'')

FIRST MODAL PREFIXES. Under this term are comprised a small number of rather frequently occurring elements which regularly come after both adverbial prefixes and deictic elements, but precede another set of modal elements (second

modal prefixes) which are to be taken up shortly. Their meaning is rather colorless. Besides their position they have this peculiarity in common, that they lose their vowel in indefinite tense forms (such as have no second modal prefixes: θ -, γ -, or n-) and are thus reduced to single consonants. They are:

```
t'e- (definite tenses), t'- (indefinite tenses) seems to indicate
     durative activity (cf. Hupa te-; Kato te-, t-):
          t'e/\theta ic/ya "I go;" indefinite: d\bar{o}/t'Ac/yic "I'll
               not go; '' t'ī/yAc/t'e ''you must go''
          t'AcL/dAc "I run" (indefinite)
          tc!At/t'o/θAt "you (pl.) wash yourselves" (indefi-
               nite)
          t'/\gamma t/\bar{\imath} "he looks around" (indefinite; but see
               note 69)
          t'e/\theta A\theta/lat/la "I've been sleeping;" indefinite:
               t'Ac/lat "I'm sleeping"
          t'Act/xwA\theta "I cough" (indefinite)
          mat/t'é/tc!at/ts!al/lec "wherewith it is smoked"
                (as following tc!- is deictic, it is more likely
               that t'e- here is adverbial prefix, not first
               modal; see note 77).
de- (definite tenses; da- before \gamma-), d- (indefinite tenses)
     meaning unknown (cf. Hupa d-, d\bar{u}-; Kato de-, d-):
          at/dAc/nt/dAn "when I tell him" (indefinite)
          y\dot{u}/w\bar{\imath}s\ dAct/n\bar{\imath} "I whistle" (indefinite)
          c/na/\gamma \ddot{a} dt^{i}/s'at' "my-eyes hurt" (definite; cf.
               Hupa d\bar{u}/win/tcat "it got sick")
          n\dot{a}/da/\gamma_{Act}/t!\dot{\sigma} "I bathe;" indefinite: n\bar{a}/dAct/-
               t!ō′/t'è ''I'll bathe''
          na/da/\gamma il/\hat{e}t "we are bathing;" indefinite: n\bar{a}/\gamma
                díl/et "we'll bathe"
          n\bar{a}/d\acute{a}cL/nic "I work" (indefinite)
          n\dot{a}/dAct/d\dot{e} "I washed myself" (indefinite)
          ya/dáct/yac "I am ashamed" (indefinite)
          ya/da/\gamma it/dja "we are ashamed" (definite)
          d\bar{a}/de/\theta il/t\theta!i "we are sitting down" (definite)
```

```
\gamma e- (definite tenses), \gamma- (indefinite tenses) meaning unknown: tc! A\gamma/\gamma e/\theta ic/ya "I eat" ya/q! \acute{e}\theta/ya "he eats" (q!e- is probably misheard for \gamma e-) \gamma e/\theta i/\bar{\imath} "you saw him;" indefinite: d\bar{o}/wa/\gamma \bar{\imath}/i/t-t" "you'll see him" \gamma \acute{e}\theta t/l\bar{o} "he breaks into laughter;" indefinite: \gamma \acute{A}t/l\bar{o} "he laughs" an/\gamma i/at "come on!"
```

This γe -, γ - should not be confused with second modal γ -, which will be taken up presently. Two first modal prefixes (t'- and γ -) occur in $t'/\gamma i/\bar{\imath}$ "he looks around;" that γ - is not second modal here is indicated by parallel definite forms with γe - (see $\gamma e/\theta i/\bar{\imath}$ above), further by weak form t'- of first prefix (definite tenses require t'e)⁴⁷

```
ne- (definite tenses), n- (indefinite tenses) meaning unknown (cf. Hupa ne-, n-; Kato ne-, n-; Chipewyan ne-, nū-): xwAn/né/θiL/ya "you win" (cf. Kato kûn/ne/sīL/yan "you win")
dā/nAc/t'Āc "I go to bed" (indefinite; cf. Hupa definite: tcin/nes/ten "he lay")
n/da' "it is, stays" (indefinite; cf. Kato definite: tc'n/nes/dai "he sat down")
nā/nAc/An "I stop him;" nā/ni/An "stop him!" (indefinite)
n/dō "it is not" (indefinite; cf. Kato n/dō*/ye "there is none")
```

This ne-, n- is not to be confused with second modal n-, which occurs only in definite tenses.

SECOND MODAL PREFIXES. These comprise three consonantal elements (θ - or s-; γ -; and n-) which are used only in definite tenses and which have reference, as far as any definite

⁴⁷ Moreover, te- in definite tenses seems regularly followed by second modal θ -, not γ -. Yet $-\bar{\imath}$ - of $\gamma\bar{\imath}$ - causes difficulty; see note 69.

significance is ascertainable at all, to what may be termed range or span of activity, but not to tense as such. θ - (s- in certain forms) is durative or continuative in force (cf. first modal t'e-, which is regularly followed by θ -); n- is cessative, marking the end of an activity or marking an activity which is conceived as the end point of a previous activity (e. g., "to come" as contrasted with durative "to go"); γ - is the most uncertain, being apparently inceptive or momentaneous in some cases, but clearly not so in others.⁴⁸ They are, it seems, mutually exclusive elements. In practice their use seems largely determined by the prefixes that precede. n- and γ - always begin their syllable, being completed either by $-\bar{\imath}$ ($<*-i\eta$ -) or by subjective pronominal or by third modal elements, which are joined to them by means of -i- or inorganic -A-; θ - (s-) is similarly joined to following subjective pronominal elements, if one is present, otherwise it forms part of the preceding syllable.

Examples illustrating θ - (s- before l, L) are:

 $t'e/\theta ic/ya$ "I go;" $t'e\theta/ya$ "he goes" (cf. Hupa $te/s\bar{e}/yai$ "I went away")

 $n_A n / n \acute{a} \theta / y \bar{a} / l a$ "he went around it"

 $tc!A\gamma/\gamma e/\theta ic/ya$ "I eat;" $ya/q!e\theta/ya$ "he eats" (contrast Hupa $yik/ky\bar{u}/wi\tilde{n}/yan$ "it ate" with w-)

 $tc!e/\theta it/t!\bar{o}$ "you swim across" (contrast $na/da/-\gamma it/t!\bar{o}$ "you bathe")

 $d \dot{a} \theta / d \bar{a}$ "he is sitting down" (cf. Hupa sit/dai "he lived")

 $d\bar{a}/de/\theta il/t\theta!i$ "we are sitting down" (cf. Hupa $de/s\bar{o}_L/tse/te$ "you will stay")

 $tc!\bar{a}/\theta il/se$ "you (sing.) cry" (contrast Hupa $win/-tcw\bar{u}$ "you have cried")

 $^{^{48}}$ Goddard somewhat doubtfully assigns inceptive force to its Hupa cognate w-; in Kato its cognate g- seems clearly inceptive only in certain verbs; while in Chipcwyan Goddard ascribes continuative value to g-. It would be worth while making a somewhat extended comparative study of the second modal prefixes of Athabascan, which form one of the most difficult but at the same time important chapters of its grammar.

 $\gamma e/\theta ic/\bar{\imath}$ "I saw him" (cf. Hupa $te/s\bar{u}\underline{w}/i\tilde{n}$ "I am going to look")

 $n\bar{a}/\theta it/s\bar{\imath}$ "you told story" (cf. Hupa na/seL/tcwen "I made")

 $t'e/\theta t/lat/la$ "you've been sleeping" (cf. Hupa nit/te/sil/lat/le "you would go to sleep")

 $\theta ict/t$ ' $\bar{a}t$ "I kicked him" (contrast Hupa $ye/tc\bar{u}/wiL/taL$ "they landed" with w-)

 $na/\gamma \dot{a}/\theta it/xwi$ "you vomit"

 $\gamma e/\theta A\theta t/l\bar{o}$ "I break into laughter"

 $L\dot{a}\theta/\bar{a}/la$ one was $(=L\bar{a}$ "one" plus $\theta/\bar{a}/la$; cf. Chipewyan $\vartheta e/\tilde{a}$ "was there")

 $q!wAt/da\theta t/g\lambda c$ "it lies thrown down on top, table-cloth" (cf. Hupa wes/kas "it lay")

q/w\(\text{t}/dasL/n\and \)"it was lying on it"

 $xwAn/n\acute{e}/\theta iL/ya$ "you win" (cf. Kato $k\hat{u}n/ne/-s\bar{\iota}L/yan$ "I win")

Examples illustrating n- are:

níc/ya "I come" (cf. Hupa nei/yai "I came")
níc/dac "I dance" (cf. Kato nûc/dac "I will
dance")

t'e/nt/lat "you drown" (cf. Kato tc'n/nul/lat "it floated there")

Examples illustrating γ - are:

 $\gamma t/dac$ "he dances" (cf. Kato $tc'/g\hat{u}n/dac/kwa\hat{n}$ "he had danced")

 $y\bar{a}/\gamma Act/gA\theta$ "I climb" (cf. Hupa ya/wiL/kas "he threw up")

 $y\bar{a}/\gamma t/t!a$ "it flies" (cf. Hupa na/win/tau "it will settle down")

 $n\acute{a}/da/\gamma_{Act}/t!\acute{\sigma}$ "I bathe"

 $na/da/\gamma \hat{\imath}l/\hat{e}l$ "we are bathing" (cf. Chipewyan $na/\bar{\imath}/ginL/\bar{u}L$ "take through the water")

t'é/An/γAc/lAt "I'm sinking in the water" (cf. Hupa da/na/wil/lat "it was floating there") γAcL/Az "I've been sneezing" tc!ō/γit/siL/la "he pointed with his finger" ya/da/γit/dja "we are ashamed"

Subjective Pronominal Prefixes. There are three persons and two numbers (singular and plural), making six persons in all. The third persons, as we have seen, are indicated either by the absence of a pronominal element or by deictic prefixes which come between the adverbial prefixes and the first modal There thus remain four persons (first person singular and plural, second person singular and plural) for treatment In the definite tenses the pronominal elements are appended to the second modal elements, with which they form a syllable, an inorganic A or i, if necessary, serving to connect In the indefinite tenses the pronominal elements are appended to whatever element (adverbial prefix, deictic element, or first modal prefix in reduced form) happens to precede They never begin their syllable except in the comparatively small number of cases in which the verb form, indefinite in tense, has nothing preceding the pronominal element or, in the case of the third person, nothing preceding the third modal prefix or verb-stem. When this happens, the second person singular and plural and the first person plural stand at the very beginning of the verb; the first and third persons singular, however, begin with an inorganic vowel A-.

First Person Singular -c- (cf. Hupa -w-; Kato -c-; Chipe-wyan -s-):

 $t'e/\theta ic/ya$ "I go" $\theta icL/t'\bar{a}t$ "I kicked him" nic/ya "I come" $d\dot{a}/nAc/t'\bar{A}c$ "I go to bed" $t'\dot{e}/An/\gamma Ac/lAt$ "I am sinking in the water" $\gamma Act/l\bar{o}$ "I laugh"

yā/γAct/gAθ "I climb" t AcL/dAc "I run" nac/t!ō "I swim, bathe" Act/t!ō "I suck" AcL/Az "I sneeze"

In definite tenses with θ - or n- as prefix the inorganic vowel connecting these elements with -c- is regularly i; this is evidently due to the palatal quality of the -c-. In definite tenses with γ - as prefix, however, the normal inorganic vowel, A, is found, due, no doubt, to the velar position of the prefix. In the indefinite tenses the connecting vowel, if required, is always A. Where we have nAc- we are dealing with first modal ne-, reduced to n-, plus -c-, not with second modal n- plus -c-; contrast definite nic/ya with indefinite $d\dot{a}/nAc/t$ Ac.

Before s- sibilants -c- is assimilated to -s-:

$$d\dot{o}/As/se$$
 "I'm not crying" (<* Ac/se)

 θ ic- goes back to original *sic- or *sAc-. When -c- came to stand before a dental consonant (d, t, l), it was assimilated to -s-, and the inorganic vowel preceding it assumed the form A; this *sAs- then regularly became θ A θ -:

 $d\bar{a}/\theta A\theta/d\bar{a}$ "I am sitting" $\gamma e/\theta A\theta t/l\bar{o}$ "I break into laughter" $na/\gamma \dot{a}/\theta A\theta t/xw\dot{t}$ "I vomit" $t'e/\theta A\theta/lat/la$ "I've been sleeping"

Before third modal -l-, θic - seems to be regularly retained (cf. $\theta icl/t$ ' $\bar{a}l$ above; $\theta icl/s\bar{\imath}$ "I make"). Secondary sAs-, not shifted to $\theta A\theta$ -, is found, however, before l(L) when this element is secondarily changed from third modal -l-:

That sAsL- here is equivalent to *sAsL- is indicated by $tc!\bar{a}/\theta il/se$ "you cry;" contrast $\theta il/t$ " is indicated by $\theta il/t$ " if with the him," $\theta icl/t$ " at "I kicked him."

It is to be carefully noted that -c- (or its reflexes -s-, $-\theta$ -) is in Chasta Costa found in both definite and indefinite tenses. There is no trace of an element corresponding to the Hupa -e- ($-\bar{e}$ -), Kato $-\bar{\imath}$ -, Chipewyan $-\bar{\imath}$ -, which are found in forms of definite tenses. It is quite probable that the -c- of the indefinite forms was extended by analogy.

Second Person Singular i- (cf. Hupa $-\tilde{n}$ -, i. e. $-\eta$ -; Kato -n-; Chipewyan n-, ne-, or nasalization of vowel:

t'il/dac "you run"

t'ā/γίt/nā "you drink"

nā/tc!ił/L!ō "you write"

na/da/γίt/t!ō "you bathe"

nā/dít/t!ō/t'e "you'll bathe"

yā/γίl/gaθ "you climb"

ya/díl/yac "you are ashamed"

nā/kit/sī "you made, told"

nā/xwíl/ye "you play"

xwíl/ī "you believe it"

xwan/né/θiL/ya "you win"

t'íl/xwaθ "you cough"

In all these cases the -i- connects a following third modal element (-i-, -l-, or -i-) with a preceding prefix. Examples of -i- beginning its own syllable are:

 $\bar{\imath}l/Az$ "you sneeze" $h\bar{\sigma}/il/\bar{\imath}$ "stop!"

If there is no third modal element, the -i-, lengthened to close $-\bar{\imath}$ -. closes its syllable:

 $d\bar{a}/ni/t$ 'Ac "go to bed!" t'i/lal "you are sleeping" $d\bar{a}/\theta i/d\bar{a}$ "you are sitting" $y\bar{a}/\gamma i/t!a$ "you fly" $d\bar{b}/\bar{i}/se$ "you do not cry" This i-, $\bar{\imath}$ -, is only secondarily the second person singular subjective element. The original element was doubtless - η - (cf. Hupa), which was reduced to nasalization of preceding vowels; the inorganic vowel, when nasalized, took on i- timbre Finally, when nasalization disappeared, the i- timbre alone remained as the reflex of original - η -. Where, in many indefinite tense forms, the nasalized vowel was other than an inorganic one, there was nothing left of the - η -:

```
dō/yā/t!a "you won't fly"
nā/xe "you paddle"
nét/ī "look at him!" (cf. néct/ī "I'm looking at him")
```

In such cases the second person singular fell together with the third, as in $d\bar{o}/y\dot{a}/t!a$ "he won't fly."

First Person Plural (i) t^{-49} (cf. Hupa it/d-, -d-; Kato d-; Chipewyan -t-, -d- 50):

t'it/lat "we are sleeping" tc!At/t' $it/\theta At$ "we wash ourselves" t'e/nit/lat "we drown" $d\bar{a}/nit/t$ 'Ac "we went to bed" $\gamma e/\theta it/\bar{\imath}$ "we saw him" $y\bar{a}/\gamma it/t!a$ "we fly" t' $e/An/\gamma it/lAt$ "we are sinking in the water" $d\bar{o}/it/se$ "we are not crying"

In Hupa and Kato regularly, and in Chipewyan often, the first person plural subjective pronominal prefix begins its syllable; in Chasta Costa it regularly ends its syllable, unless it has to stand at the beginning of the verb form, when it constitutes a syllable by itself (cf. $d\delta/it/se$ above; $d\delta$ "not" is independent adverb rather than prefix).

 $^{^{49}}$ t is here unaspirated, and is thus etymologically identical with d.

⁵⁰ In Father Legoff's Montagnais paradigms -id- or -it- often, in fact regularly, appears: -i- seems, as in Chasta Costa, to be organic.

If the prefix preceding the pronominal element ends in a vowel, the -i- disappears:

 $d\bar{o}/y\acute{a}t/t!a$ "we won't fly"

This does not mean, however, that this -i- is to be considered an inorganic vowel, as is the case in Hupa it/d-. If -it- is followed by third modal -t-, both -t- elements combine into a single -t-, and all that is left of the pronominal prefix is the -i-:

 $t'\bar{a}/\gamma \dot{a}/\theta it/n\bar{a}$ "we drink" (contrast $t'\bar{a}/\gamma \acute{a}\theta t/n\bar{a}$ "they drink")

If the third modal element is -l- or -l-, -t- disappears and -l- is changed to -l-; thus the first person plural of l- verbs and l- verbs is always formed alike. In Hupa and Kato third modal -l- regularly becomes -l-, but d- is preserved; hence Hupa dil-, Kato dûl-. In Chipewyan, however, as in Chasta Costa, -l- not only becomes -l-, but -t- disappears. For Chasta Costa this means that the second person singular and first person plural of l- verbs is identical, provided, of course, that there is no deictic prefix of plurality in the latter and that the verb stem does not change for the plural. Examples of l-verbs are:

 $d\bar{a}/de/\theta il/t\theta!i$ "we are sitting" (cf. Chipewyan $de/\theta \bar{\imath}l/\theta"\bar{\imath}$ "we are sitting")

 $n\bar{a}/dil/nic$ "we work" (cf. $n\bar{a}/dil/nic$ "you work") $t'il/xwA\theta$ "we cough" (cf. $t'il/xwA\theta$ "you cough") $n\bar{a}/xwil/ye$ "let us play" (cf. $n\bar{a}/xwil/ye$ "you play") $\bar{i}l/Az$ "we sneeze" (cf. $\bar{i}l/Az$ "you sneeze") $na/da/\gamma il/\hat{e}t$ "we are bathing;" $n\bar{a}/dil/et$ "we'll bathe" $tc!a/\gamma \dot{a}/\theta il/se$ "we cry" (cf. $tc!a/\theta il/se$ "you cry")

Examples of t- verbs are:

 $y\dot{n}/w\bar{\imath}s$ $ya/dil/n\bar{\imath}$ "we whistle" (cf. third person plural: $ya/dAt/n\bar{\imath}$) $n\dot{a}/tc!il/L!\bar{o}$ "we write" (cf. $n\dot{a}/tc!it/L!\bar{o}$ "you write")

If, in an indefinite tense form, the pronominal element is preceded by a prefix ending in a vowel and is, besides, followed by third modal -l- or -l-, both -i- and -t- have to disappear and there is nothing left of the pronominal element except, in the case of t- verbs, the change of -l- to -l-:

```
n\acute{e}l/\bar{\imath} "let us look at him!" (cf. n\acute{e}t/\bar{\imath} "look at him!") tc!\bar{a}/\gamma\acute{e}l/se, very likely misheard for tc!\bar{a}/\gamma\acute{a}l/se "we'll cry" (cf. definite: tc!a/\gamma\dot{a}/\theta il/se "we cry")
```

Second Person Plural \bar{o} - (cf. Hupa \bar{o} '-; Kato \bar{o} '-; Chipewyan \bar{o} '-):

```
t'\dot{o}/lat "ye sleep" t'e/\theta\dot{o}/lat "ye have been sleeping" t'e/n\dot{o}/lat "ye drown" y\bar{a}/\gamma\dot{o}/lat "ye fly" t'\dot{e}/n\eta\dot{o}/lat "ye fly" t'\dot{e}/n\eta\dot{o}/lat "ye sink in the water" t'\ddot{a}/\gamma\dot{a}/\theta\dot{o}t/n\ddot{a} "ye drink" d\dot{o}/\bar{o}/se "ye are not crying"
```

No aspiration was heard after \bar{o} in Chasta Costa. This does not seem due to faulty perception, as l- verbs keep their -l-after \bar{o} -, whereas, under similar circumstances, Hupa, Kato, and Chipewyan change -l- to -l- (\bar{o} '-l- becomes $\bar{o}t$ -). Indeed, in Chasta Costa l- verbs change their -l- to -l- after second person plural \bar{o} -. Examples of \bar{o} - before l- verbs are:

```
n\bar{a}/d\delta l/nic "ye work"

na/da/\gamma\delta l/\hat{e}l "ye bathe;" n\bar{a}/d\delta l/el "ye will bathe"

t'\delta l/xwA\theta "ye cough"

n\bar{a}/x\bar{o}l/y\acute{e}/le "ye play" (for -xw\bar{o}l-)

\bar{o}l/Az "ye sneeze"
```

Examples of -t- becoming -t- after ō- are:

```
ya/d\delta l/n\bar{\imath} "ye utter, make a sound" (cf. third person plural ya/dA l/n\bar{\imath}) ne/x\bar{o}/\bar{o}l/\bar{\imath} "ye look at him" (cf. n\acute{e}l/\bar{\imath} "you're looking at him")
```

When, in an indefinite tense form, \bar{o} - is preceded by a prefix ending in a, a and \bar{o} contract to long \bar{a} (which, it would seem, remains long even in closed syllables):

```
d\bar{o}/y\dot{a}/t!a "ye won't fly" (<*ya\bar{o}'-; cf. third person singular d\bar{o}/y\dot{a}/t!a with original y\bar{a}-; and second person singular d\bar{o}/y\dot{a}/t!a < *ya - < *ya\eta)
```

 $tc!\bar{a}/\gamma\dot{a}l/se/t$ 'e "ye will cry" (cf. definite: $tc!a/\gamma\dot{a}/\theta\bar{o}l/se$ "ye cry;" and contrast $tc!\bar{a}/\gamma\dot{a}l/se$ "we'll cry" with short -a-)

Third Person. As already noted, the third person, apart from possible deictic prefixes, is marked by the absence of any pronominal element. If the element preceding the third modal prefix or the stem consists of a consonant which must begin its syllable, an inorganic -A- is found between the two; if a third modal prefix is absent, the syllable preceding the stem is closed by a consonant borrowed from the first consonant of the stem. Examples of third persons with -A- before a third modal prefix are:

```
ya/dAl/yAc "he is ashamed" t^*Al/dAc "he runs" n\bar{a}/xwAl/ye "he plays" y\bar{a}/\gamma Al/gA\theta "he climbs" y\dot{u}/w\bar{i}s\ dAt/n\bar{i} "he whistles" t^*\bar{a}/\gamma At/n\bar{a} "he drinks"
```

Examples of third persons with -A- followed by an inorganic consonant are:

```
d\dot{a}/nAt/t'\lambda c "he went to bed" (-t- is not third modal; cf. second person singular d\bar{a}/n\dot{t}/t'\lambda c)
```

 $t'\acute{e}/An/\gamma Al/lAl$ "he is sinking in the water" (-l- is not third modal; cf. second person singular $t'\acute{e}/An/\gamma \bar{\imath}/lAl$)

First modal n-, reduced from ne-, however, has in several cases been found without following inorganic vowel and consonant.

In such cases it closes the preceding syllable, which may even belong to another word. Examples are:

- $d\dot{\phi}/dAt$ 'An/t!e "not-anywhere there-is" (cf. Kato $qn/t'\bar{e}$ "it is;" Hupa $\hat{u}n/\underline{t}e$ "there is")
- $t dn/d\bar{o}$ "nine" (really $t a n/d\bar{o}$ "one is-lacking"); $n\bar{a}/xAn/d\bar{o}$ "eight" (reduced from $n\bar{a}/xi$ $n/d\bar{o}$ "two are-lacking") (cf. Kato $n/d\bar{o}^{\epsilon}/b\hat{u}\tilde{n}$ "it will not be," but also $n\hat{u}t/d\bar{o}^{\epsilon}$ "all gone")
- cic/mAnen/da' (= ct c/mAne n/da') "I my-house is" (cf. Chipewyan ne/da "she sat")

If the verb form consists, properly speaking, of the stem alone, without prefix of any kind, an inorganic A- completed by a consonant that depends for its form on the first consonant of the stem is prefixed for the third person:

- $As/s\acute{e}/t'e$ "he must cry" (<*se/t'e; cf. $d\ddot{o}/As/se$ "I'm not crying" <*Ac/se)
- $d\bar{o}/wa/al/l\hat{e}'$ "he will become" ($<*l\hat{e};\ d\bar{o}/wa$ is adverb not influencing form of verb proper. That -l- is here no third modal element is shown by forms like Hupa \bar{o}/le "let him become")

This A- at the beginning of a third personal form appears also when the verb begins with a third modal element:

Al/Az "he sneezes"

In this respect Chasta Costa differs from Kato, which need have nothing preceding the stem; with As/se compare Kato tce' "he cried."

In the third person of definite tenses with second modal γ - or n- prefix this element is followed by $-\bar{\imath}$, in case there is no third modal prefix present. This goes back, without doubt, to nasalized -i- or -A-, in turn reduced from original $-i\eta$ - (or $-A\eta$ -). This nasal element, characteristic of definite third personal forms (except such as have θ -, Athabascan s-, as second

modal prefix) is found also in Hupa $(-i\tilde{n}-)$, Kato $(-\hat{u}n-)$, and Chipewyan (-n-, -in-). Examples are:

t'e/nt/lat "he drowns" (cf. Kato tc'n/nul/lat "it floated there," nul- assimilated from nun-; t'e/nt/lat also "you drown")

 $\gamma i/dac$ "he dances" (cf. Kato $tc'/g\hat{u}n/dac/kwa\tilde{n}$ "he had danced")

 $y\bar{a}/\gamma t/t!a$ "it flies" (cf. Hupa na/win/tau "it will settle down;" $y\bar{a}/\gamma t/t!a$ also "it flies")

di'/s'at' "it pains" $(d\bar{\imath}i-<*di\eta-, \text{ contracted}^{51} \text{ from }*de/-\gamma i\eta-; \text{ cf. Hupa } d\bar{\imath}/win/tcat \text{ "it got sick"})$

Rather hard to understand is:

 $t'\dot{e}/An/\gamma Al/lAl$ "he is sinking in the water"

One would have expected $-\gamma \bar{\imath}$, not $-\gamma Al$ - (as seen above, -lis not third modal, but inorganic). Is γA - reduced from first
modal γe -, this form being indefinite in tense?

In Hupa this $-i\tilde{n}$ - does not seem to be found before third modal prefixes; in Chipewyan -n- (-in-) may, however, occur before -l- and, as inferred from Father Legoff's Montagnais paradigms, also -l-. As for Chasta Costa, what examples are available on this point show that -i- does not occur before -l- (e. g. $y\bar{a}/\gamma Al/gA\theta$ "he climbs"). For l- verbs I have no safe example. Before -l- it seems that -i- is present in some cases, not in others:

 $tcl\bar{o}/\gamma \hat{\imath}t/siL/la$ "he pointed with his finger"

but, without -i-:

 $na/da/\gamma At/t!\bar{o}$ "he is bathing"

On the whole, it seems possible that Athabascan $-A\eta$ - (or $-A\eta$ -) was originally a more freely movable element than it has

⁵¹ Parallel in form to Hupa verbs belonging to Class I, Conjugation 1 D, in which prefixed first modal d- or deictic k^yl - contracts with $-i\eta$, w- (Athabascan γ -) being lost. See Goddard, $op.\ cit.$, p. 113.

become in e. g. Hupa, being required by certain verbs in their definite tenses, but not by others. This is suggested also by Father Legoff's Montagnais paradigms.

THIRD MODAL PREFIXES. There are three of these: -l-, -l-, and -t-; they always complete a syllable immediately before the stem. -l- is characteristic of many verbs which are either transitive or, at any rate, imply activity directed outward; in some cases, however, this significance is not obvious. As we have seen, this -l- becomes -l- in the first and second persons plural. Examples of -l-(-L-) are:

```
\theta ict/t'\bar{a}t "I kicked him" t\theta! A\theta/d\dot{a} cAt n\bar{a}/\theta it/s\bar{\imath} "story to-me you-told, made" n\dot{e}ct/\bar{\imath} "I'm looking at him" n\dot{a}t/d\dot{e} "he washes (something)" nat/L!\dot{\sigma} "he writes" tc!At/t!\bar{\sigma} "he sucks" y\dot{\pi}/w\bar{\imath}s dAt/n\bar{\imath} "he whistles;" y\dot{\pi}/w\bar{\imath}s dAct/n\bar{\imath} "I whistle" xwAn/n\dot{e}/\theta iL/ya "you win"
```

If nothing precedes this element, it seems (unlike -l-) to begin its word without preceding inorganic A-:

```
d\bar{o}/wa/t/t'át/nAt ''they will be broken'' (d\bar{o}/wa is merely proclitic) t/t't ''he is important''
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Verbs in -l- are regularly intransitive; they denote states of mind or bodily activities that may be thought of as self-contained, not directed outwards. A reflexive meaning is sometimes apparent. After first person subjective -c- (-s-) it always appears as -l-. Hence the first person singular, the first person plural, and the second person plural of -l- verbs and l- verbs are always alike (but contrast θicl - <*sAcl- with sAsl <*sAcl-). As -l-, when standing after s, becomes -l- also in the third person, the second person singular alone remains

 $^{^{52}}$ This verb is irregular, inasmuch as -l- does not occur in the second person singular: $y \dot{u}/w \bar{\imath} s \ d\bar{\imath}/n \bar{\imath}$ "you whistle."

as an infallible criterion of whether a verb belongs to the t-class or t-class. Examples of -t- are:

ya/dAl/yAc "he is ashamed" $xwAcL/\bar{\imath}$ "I believe;" $xwil/\bar{\imath}/ha$ "do you expect?" t'Al/dAc "he runs" $y\bar{a}/\gamma Al/gA\theta$ "he climbs" $n\dot{a}/dAl/d\dot{e}$ "he washed himself" Al/Az "he sneezes" $t'Al/xwA\theta$ "he coughs" $na/xAt/da/\gamma Al/et$ "they are bathing" $n\bar{a}/xwAl/ye$ "he plays" $n\bar{a}/dAl/nic$ "he works" $tc!\dot{a}sL/se$ "he cries;" $tc!\bar{a}/\theta il/se$ "you cry" $tc!\dot{a}cL/se/t'e$ "I'll cry;" $tc!\dot{a}l/se/t'e$ "you'll cry" $h\dot{b}/\gamma AcL/\bar{\imath}$ "I stop, cease;" $h\dot{b}/il/\bar{\imath}$ "stop!"

Verbs in -t- are also intransitive. Examples are:

 $t'\bar{a}/\gamma it/n\bar{a}$ "you drink" $ye/\gamma at/ne/la$ "he bit (it)" $tc!\bar{o}/\gamma it/siL/la$ "he pointed with his finger" $q!wAt/da\theta t/gAc$ "it lies thrown down on top, table-cloth" $\gamma Act/l\dot{o}$ "I laugh" (- $t/l\bar{o}$ may, however, represent original Athabascan - $dl\bar{o}$ "to laugh") $ya/da/\gamma it/dja$ "we are ashamed"

There may be a passive significance in:

q!wAt/tc!At/dja "whereon it is eaten, table"

With iterative na-:

 $na/\gamma \dot{a}/\theta A\theta t/xw\bar{\imath}$ "I vomit"

Verb Stems. The stems that have been determined for Chasta Costa are:

-' \bar{a} ,-'a''to have position, to be'' (cf. Hupa -ai, -a; Kato -'ai', -'a'): θ /' \bar{a} /la ''(one table) was''

- -'Ac ''to bring'' (cf. Hupa -an, $-\hat{u}\tilde{n}$, $-au\underline{w}$ ''to transport round objects''; Kato $-\epsilon q\tilde{n}$, $-\epsilon qc$): $\gamma An/na/Ac$ 'he will bring it''
- -'An "to bring to a halt, stop" (perhaps another form of preceding stem): $n\bar{a}/nt/An$ "stop him!"
- -Az "to sneeze": AcL/Az "I sneeze"
- -at "to come" (cf. Chipewyan as, -as, -as "to travel, used of two persons only"?) $an/\gamma t/at$ "come on!"
- - $\hat{e}t$, -et "to bathe (plur. subject)" (cf. Chipewyan -el, -eL, - $\bar{u}L$ "to move on the surface of water"): $na/da/\gamma il/\hat{e}t$ "we are bathing"
- -' $\bar{\imath}$ ''to see, look at'' (cf. Hupa -en, $-i\tilde{n}$; Kato $-i\tilde{\imath}$ ''to look''): $\gamma e/\theta i c/\bar{\imath}$ ''I saw him''
- $-\bar{\imath}$ "to stop, cease" (cf. Hupa -en, -i \tilde{n} "to do, to act, to deport one's self"?): $h\bar{o}/\gamma_{ACL}/\bar{\imath}$ "I stop (laughing)"
- $-\bar{\imath}$ "to believe, expect": $xwAcL/\bar{\imath}$ "I believe"
- -ya, -yac, -yic "to go, come" (cf. Hupa -yai, -ya, -yauw; Kato -yai, -ya, -yac): $t'e/\theta ic/ya$ "I go;" t'Ac/yAc/t'e "I must go"
- -ya "to eat" (cf. Hupa -yan, -yûñ, -yauw; Kato -yan -yīl): $tc!A\gamma/\gamma e/\theta ic/ya$ "I eat;" q!wAt/tc!At/dja(<-t/ya) "whereon one eats, table"
- -ya "to win" (cf. Kato -yan, "Kato Texts," p. 146, l. 13; not listed in "Elements of the Kato Language"): $xwAn/n\acute{e}/\theta iL/ya$ "you win"
- -yan "to upset" (cf. Kato -yañ "to clear off"?): $d\bar{o}/w\dot{a}/An/-n\bar{a}/yan/nAt$ "he will upset them"
- -ya, -yac "to be ashamed" (cf. Kato -yañ "to be ashamed"): ya/dAl/yAc "he is ashamed;" $ya/da/\gamma it/dja$ (<-t/ya) "we are ashamed"
- -ye "to play" (cf. Hupa -ye "to dance"): $n\bar{a}/xwAl/ye$ "he plays"
- -lat "to sleep" (cf. Hupa -lal, -lal; Kato -lal, -lal): $t'\acute{e}\theta/-lat/la$ "he's been sleeping"
- -lat "to sink in water;" -lat "to drown" (cf. Hupa -lat,

- -la "to float"): $t'\acute{e}/An/\gamma Ac/lAt$ "I am sinking;" $t'\acute{e}/-n\acute{i}c/lat$ "I drown"
- - $l\hat{e}$ "to become" (cf. Hupa -len, - $li\tilde{n}$, -le; Kato - $li\tilde{n}$, -le): $d\bar{o}/wa/al/l\hat{e}$ "it will become"
- -lec "to wager, bet": né/tc!ūc/lec "I'll bet you"
- -lec "to smoke": mAt/t'e/tc!At/ts!Al/lec "wherewith it is smoked"
- - $l\bar{o}$ "to laugh, smile" (cf. Chipewyan - $dl\bar{o}$, - $dl\bar{o}k$ "): $\gamma it/l\bar{o}$ "laugh!"
- - $L!\bar{o}$ "to write" (cf. Hupa - $L\bar{o}n$, - $L\bar{o}$, - $L\bar{o}\underline{w}$, -Loi "to make baskets, to twine in basket-making;" Kato - $L\bar{o}i$, - $L\bar{o}$, - $L\bar{o}n$): $nal/L!\dot{o}$ "he writes"
- - $n\bar{a}$ "to drink" (cf. Hupa -nan, - $n\hat{u}\tilde{n}$; Kato -nan): $t'\bar{a}/-\gamma Act/n\bar{a}$ "I drink"
- - $n\bar{a}$ "to lie" (cf. Kato $n\bar{o}L/tin/na^{\epsilon}$ "were left"?): $q!wAt/dasL/n\dot{a}$ "it was lying on it"
- -ne "to bite, seize with one's teeth": $ye/\gamma \acute{a}t/ne/la$ "he bit it"
- - $n\bar{\imath}$, -n "to make a sound, to say" (cf. Hupa -ne, -n "to speak, to make a sound;" Kato - $n\bar{\imath}$, -ne, -n, -nec, - $n\bar{\imath}L$): $y\dot{n}/w\bar{\imath}s\ dAt/n\bar{\imath}$ "he whistles;" $\dot{a}/djAn$ "he says"
- -nic "to work": $n\bar{a}/dAl/nic$ "he works" (cf. Montagnais -ni "exprime l'action des mains" 53
- - θAl "to wash oneself (plur. subject)" (cf. Hupa -sel, -sel "to be or to become warm;" Kato - $s\bar{\imath}l$ "to steam," - $s\hat{\imath}l$, - $s\hat{\imath}l$ "to be warm"): $tc!At/t'\hat{\imath}t/\theta Al$ "we wash ourselves"
- - $\theta e \bar{t}$ "to throw": $y \bar{a}/\gamma t/\theta e \bar{t}$ "you threw"
- -se "to cry" (cf. Hupa -tcwū, -tcwe "to cry, to weep;" Kato -tceG, -tce'): tc!ásL/se "he cries"
- - $s\bar{\imath}$ "to cause" (cf. Hupa -tcwen, - $tcwi\tilde{n}$, -tcwe "to make, to arrange, to cause;" Kato -tcin, - $tc\bar{\imath}$, - $tc\bar{\imath}$ L): $n\acute{a}cl/s\bar{\imath}$ "I cause"
- -sil "to point with one's finger": $tc!\bar{o}/\gamma it/siL/la$ "he pointed with his finger"

⁵⁴ Father L. Legoff, "Grammaire de la Langue Montagnaise," p. 139.

- -da', - $d\bar{a}$ "to sit, stay" (cf. Hupa -dai, -da; Kato -da, -dai): $d\bar{a}/\theta i/d\bar{a}$ "you are sitting"
- -dac "to run" (cf. Hupa -dal, -dal, -dauw "to pass along, to go, to come;" Kato -dac "to travel"): t'Al/dac "he runs"
- -dac "to dance" (cf. Kato -dac "to dance"): $n\hbar/dac$ "you dance"
- -de "to wash (sing. subject)" (cf. Kato -deG, -de'): $n\dot{a}/-dAl/d\dot{e}$ "he washed himself"
- -t' $\bar{a}t$ ''to kick'' (cf. Hupa -taL, - $t\hat{u}l$, - $t\hat{u}L$, -tal''to step, to kick;'' Kato -tal', -tqL): $\theta ict/t$ ' $\bar{a}t$ ''I kicked him''
- -t'Ac "to lie down, go to bed" (cf. Hupa -ten, - $ti\tilde{n}$, - $tu\bar{w}$ "to lie down;" Kato -tin, - $t\hat{u}c$): $d\dot{a}/n_{AC}/t$ " I go to bed"
- -t'at "to break, go to pieces" (cf. Chipewyan -tal, -tûl "to break"): $d\bar{o}/wa/t/t$ "they will be broken"
- -t'e "to want" (cf. Hupa -te "to look for, to search after"?): $d\dot{\sigma}/ucL/t$ 'e "I do not want;" $d\dot{e}/ucL/t$ 'e "what I want"
- -t' $\bar{\imath}$ ''to be, make valuable'' (cf. Carrier $t\hat{\imath}t/th\hat{\imath}$ ''thou makest him valuable, treatest him as important''): t/t' $\bar{\imath}$ $\gamma_{A}n/na/'\hat{a}$ ''he brags''
- -t!a "to fly" (cf. Hupa - $\underline{t}au$; Kato -t'aG, -t'a'): $d\bar{o}/y\acute{a}c/t!a$ "I won't fly"
- -t!e "to be of (that) sort" (cf. Hupa -te; Kato -t'e): $d\dot{\sigma}/dAt$ "An/t!e "there is not anywhere (one like him)"
- - t/\bar{o} "to swim, bathe (sing. subject)": $nac/t/\bar{o}$ "I swim, bathe"
- - $t!\bar{o}$ "to suck" (cf. Kato - $t'\bar{o}t$): $tc!At/t!\bar{o}$ "he sucks"
- $-t\theta!i$ "to sit (plur. subject)" (cf. Hupa -tse; Chipewyan $-\theta'\bar{\imath}$): $d\bar{a}/de/\thetail/t\theta!i$ "we are sitting"
- -ts!at "to hurt, pain (intr.)" (cf. Hupa -tcat, -tca "to be sick, to become ill"): di^*/s 'at" "(my eyes) hurt"
- - γa "to go about, live" (cf. Hupa -wai, -wa "to go, to go about;" Kato -ga, -gai): $n\dot{a}/\gamma a$ "he goes about, lives"
- -xe "to paddle" (cf. Hupa -xen, -xūw "to float, used only of plural objects;" Kato -ke "to bathe (plural only);"

Chipewyan $-k\tilde{\imath}$ "to paddle a canoe, to travel by canoe"): $n\acute{a}c/xe$ "I paddle"

 $-xwA\theta$ "to cough" (cf. Kato $k\bar{o}s$ "cough," as noun; Carrier xw@s): $t'Al/xwA\theta$ "he coughs"

- $xw\bar{\imath}$ "to vomit" (cf. Carrier khu "vomiting," as noun): $na/\gamma \dot{a}/\theta A\theta t/xw\dot{\imath}$ "I vomit"

- $gA\theta$ "to climb" (cf. Hupa -kas "to throw"): $y\bar{a}/\gamma Al/gA\theta$ "he climbs"

-gAc "to throw"? (cf. Hupa -kas "to throw"): $q/wAt/da\theta t/-gAc$ "it lies thrown down on top, table-cloth"

It will be observed that several verb stems are restricted in their use as regards number of subject (or object). This trait is characteristic of Athabascan, as also of other American linguistic stocks.

Definite and Indefinite Tenses. My material on Chasta Costa is not full enough to enable me to give a satisfactory idea of its tense-mode system. It is clear, however, that absolute time (present, past, future) is quite subordinate to whether activities are thought of as taking place at some definite time (generally present or past) or are more indefinite as to time occurrence. Indefinite forms are apt to be used for general statements that apply irrespective of any particular time, for future acts, for negative (particularly negative future) acts, and regularly for imperative and prohibitive forms. The contrast between definite and indefinite present forms comes out in:

definite: $n\acute{a}/da/\gamma_{Act}/t!\acute{a}$ "I bathe" (i. e. am now engaged in bathing)

indefinite: cAt/q!we $na/dAct/t!\bar{o}$ "I'm used to bathing" (here bathing is not restricted as to time)

definite: $tc!\bar{a}/sAsL/se$ "I cry"

indefinite: t'wt/dan as/se "I always cry"

definite: $\gamma \dot{e}\theta t/l\bar{o}$ "he breaks into laughter" (i. e. laughs at one particular point of time)

indefinite: $\gamma \acute{a}t/l\bar{o}$ "he laughs"

```
definite: x_A t/t'é/lat/la "they have been sleeping" (may be said of them at moment of waking up) indefinite: x_A t/t'A l/lat "they sleep"
```

Futures, as we shall see, are explicitly rendered by suffixing -t'e to present (generally indefinite) forms; but simple indefinite forms, particularly with adverbs pointing to future time, may often be used as futures in contrast to definite present forms. Examples are:

```
definite: na/da/\gamma il/\hat{e}l "we are bathing"
indefinite: n\bar{a}/dil/el "we'll bathe"

definite t\theta! \dot{A}\theta/d\dot{a} cAl na/\theta\bar{\imath}l/s\bar{\imath} "story to-me you-told"
indefinite: x \dot{u} n/d\dot{e} t\theta! A\theta/d\bar{a} nAl n \dot{a} c l/s\bar{\imath} "tomorrow story to-you I-tell"

definite: n/\gamma e/\theta ic/\bar{\imath} "I saw you"
indefinite: xAL/ts!i/dAn d\bar{o}/wan/\gamma Ac/\bar{\imath} "this-evening I'll-see-you"

definite: t'e/\theta ic/ya "I go"
indefinite: xun/d\dot{e} t'ac/yAc "tomorrow I'll-go"
```

Negative presents or futures are regularly expressed by prefixing $d\bar{o}$ "not" to indefinite forms; when more explicitly future, -t'e is suffixed to them. Examples of indefinite forms preceded by $d\bar{o}$ are:

```
definite: tc/ac \ y\bar{a}/\gamma i/t/a "bird is-flying" indefinite: d\bar{o}/y\dot{a}/t/a "he won't fly" definite: na/\gamma\dot{a}/\theta A\theta t/xwi "I vomit" indefinite: d\bar{o}/na/\gamma Act/xw\bar{v} "I do not vomit" definite: tc/\bar{a}/sAsL/se "I cry;" tc/\bar{a}/\theta il/se "you cry" indefinite: d\dot{o}/As/se "I'm not crying;" d\dot{o}/\bar{i}/se "you're not crying" definite: \gamma e/\theta ic/\bar{i} "I saw him;" c/\gamma e/\theta i/\bar{i} "you saw me" indefinite: d\bar{o}/\gamma Ac/\bar{i} "I didn't see him;" d\bar{o}/l\dot{a}/c/\gamma \bar{i}/\bar{i} "you didn't see me" definite: t'e/\theta ic/ya "I go;" t'e\theta/ya "he goes" indefinite: d\bar{o}/t'Ac/yic "I'll not go;" d\bar{o}/t'Ac "he won't go" (<*t'A/yAc)
```

Imperatives are simply second person subjective indefinite forms. Examples are:

```
\gamma i/\bar{\imath} "see him!" c/\gamma i/\bar{\imath} "see me!" n\acute{e}t/\bar{\imath} "look at him!" (identical with indefinite present: n\acute{e}t/\bar{\imath} "you're looking at him"); ne/c\acute{\imath}t/\bar{\imath} "look at me!" n\bar{a}/n\dot{\imath}/An "stop him!"
```

Prohibitives are simply imperative forms preceded by ta:

```
ta/\gamma t/\bar{\imath} "don't see him!"
```

First person plural indefinite forms may have hortatory significance:

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n\bar{a}/xwil/ye "let us play!"
```

As regards form, definite tenses are primarily distinguished from indefinite tenses by the presence of second modal prefixes in the former, often also by the appearance of the first modal prefixes in a fuller form than in the latter; the presence of -ī- or -i- in certain third person definite forms may also be recalled. It seems, further, that certain adverbial prefixes which have a short vowel (even though in an open syllable) in definite forms lengthen it in corresponding indefinite forms:

```
definite: n\dot{a}/da/\gamma Act/t!\dot{o} "I bathe;" na/da/\gamma it/t!\ddot{o} "you bathe;" na/da/\gamma At/t!\ddot{o} "he's bathing" indefinite: n\bar{a}/dAct/t!\dot{o}'/t'e "I'll bathe;" n\bar{a}/dit/t!\bar{o}/t'e "you'll bathe;" n\bar{a}/dAt/t!\bar{o}/t'e "he'll bathe" definite: na/da/\gamma il/\hat{e}t "we are bathing;" na/da/\gamma \dot{o}l/\hat{e}t "ye are bathing;" na/xAt/da/\gamma Al/et "they are bathing" indefinite: n\bar{a}/dil/et "we'll bathe;" n\bar{a}/d\dot{o}l/et "ye will bathe;" n\bar{a}/xAt/dAl/et "they'll bathe" definite: tc!a/\gamma \dot{a}/\theta il/se "we cry;" tc!a/\gamma \dot{a}/\theta \bar{o}l/se "ye cry" indefinite: tc!\bar{a}/\gamma \dot{a}l/se "we'll cry;" tc!\bar{a}/\gamma \dot{a}l/se/t" "ye will cry"
```

These changes of quantity, however, are doubtless only secondarily connected with change of tense, as indicated, e. g., by

 $tc!\bar{a}$ - in definite singular forms: $tc!\bar{a}/sAsL/se$ "I cry;" $tc!\bar{a}/-\theta il/se/ha$ "do you cry?" It is very likely that we are dealing here primarily with considerations of syllabic and quantitative rhythm or balance.⁵⁴

In Hupa Goddard has exhaustively shown that verb stems often assume different forms for different tenses and modes. This is very likely also true to a considerable extent of Chasta Costa, but I have but little material bearing on this point. A quantitative change is found in:

```
definite -\hat{e}t: na/da/\gamma il/\hat{e}t "we are bathing" indefinite -et: n\bar{a}/dil/et "we'll bathe"
```

-c characterizes indefinite forms in:

```
definite -ya: t'e/θίc/ya "I go;" t'e/θt/ya "you go" indefinite -yac: t'ac/yác/t'e "I must go;" t'ī/yác/t'e "you must go" negative indefinite -yic: dō/t'ác/yic "I'll not go;" tá/t'ī/yic "don't go!" definite -ya: ya/da/γít/dja(<-t/ya) "we are ashamed" indefinite -yac: ya/dáct/yac "I am ashamed"
```

Pronominal Objects are regularly prefixed to the verb. They come before deictic and first modal elements, but after adverbial prefixes. Thus, while not as thoroughly immersed in the verb form as the subjective pronominal elements, they cannot well be considered apart from it. The third person singular object is not designated. In form the objective elements are, on the whole, identical with the possessive pronominal prefixes of the noun. They are:

Singular	1.	C-	Plural	1.	пō-
	2.	n-, ne-		2.	пō-
	3.			3.	xō-

⁵⁴ Hardly stress accent as such. I cannot help feeling that such rhythmic phenomena will turn out to be of fundamental importance for Athabascan generally.

"He—them" or "they—them" is expressed by means of $x\bar{\imath}$ -. c- and n-, when standing at the beginning of a verb form, take no inorganic A- before them (contrast subjective Ac-).

The definite forms of $\gamma \ell \theta/\bar{\imath}$ "he saw him" with combined pronominal subject and object are:

With first person singular object:

Sing. 2.
$$c/\gamma e/\theta i/\bar{\imath}$$
 "you saw Plural 2. $c/\gamma e/\theta \delta/\bar{\imath}$ me"

3.
$$c/\gamma e\theta/\bar{\imath}$$

3.
$$c/xA/\gamma e\theta/\bar{\imath}$$

With second person singular object:

Sing. 1.
$$n/\gamma e/\theta i c/\bar{\imath}$$
 "I saw Plural 1. $n/\gamma e/\theta i t/\bar{\imath}$ you"

3.
$$n/\gamma \dot{e}\theta/\bar{\imath}$$

3.
$$n/xA/\gamma e\theta/\bar{\imath}$$

With first person plural object:

Sing. 2.
$$n\bar{o}/\gamma e/\theta \bar{o}/\bar{\imath}$$
 "you saw Plural 2. $n\bar{o}/\gamma \dot{e}/\theta \bar{o}/\bar{\imath}$ us"

3.
$$n\bar{o}/\gamma \acute{e}\theta/\bar{\imath}$$

3.
$$n\bar{o}/xA/\gamma \acute{e}\theta/\bar{\imath}$$

For $n\bar{o}/\gamma e/\theta \bar{o}/\bar{\imath}$ "you saw us" one would have expected $*n\bar{o}/\gamma e/\theta \bar{\imath}/\bar{\imath}$. It seems that "ye saw us" has been extended in its usage to embrace also "you (sing.) saw us." It may indeed be that my data on this point rest on a misunderstanding, but there seems to be something analogous in Hupa. "You (sing.) are picking us up" would be expected in Hupa to be $*y\hat{u}n/n\bar{o}/hil/l\bar{u}\underline{w}$ (hil- assimilated from $hi\bar{n}$ -). Instead of this form, however, Goddard lists $y\hat{u}n/n\bar{o}/h\bar{o}/l\bar{u}\underline{w}$, which is not identical with but seems, as regards its second \bar{o} - vowel, to have been influenced by $y\hat{u}n/n\bar{o}/h\bar{o}/l\bar{u}\underline{w}$ "ye are picking us up." 55

With second person plural object:

Sing. 1.
$$n\bar{o}/\gamma e/\theta \bar{t}c/\bar{\iota}$$
 "I saw Plural 1. $n\bar{o}/\gamma e/\theta \hat{\iota}t/\bar{\iota}$ you (pl.)"

^{3.} $n\bar{o}/\gamma \acute{e}\theta/\bar{\imath}/la$

^{3.} $n\bar{o}/xA/\gamma \ell\theta/\bar{\imath}/la$

⁵⁵ Goddard, op. cit., p. 186.

With third person singular object:

```
Sing. 1. \gamma e/\theta i c/i "I saw him" Plural 1. \gamma e/\theta i t/i
```

2. $\gamma e/\theta i/\bar{\imath}$

2. $\gamma e/\theta \dot{\sigma}/\bar{\imath}$

3. $\gamma \dot{e}\theta/\bar{\imath}$

3. $x\bar{\imath}/\gamma \dot{e}\theta/\bar{\imath}$

With third person plural object:

Sing. 1.
$$x\bar{o}/\gamma \acute{e}/\theta \bar{\imath} c/\bar{\imath}$$
 "I saw Plural 1. $x\bar{o}/\gamma \acute{e}/\theta it/\bar{\imath}$ (heard them" also as $x\bar{o}/we$ -)

2. $\gamma e/\theta \dot{\sigma}/\bar{\imath}$

2. $x\bar{o}/\gamma \acute{e}/\theta \bar{o}/\bar{\imath}$

3. $x\bar{\imath}/dA/\gamma \dot{e}\theta/\bar{\imath}$

3. $x\bar{\imath}/\gamma \dot{e}\theta/\bar{\imath}/la$

Here again, one would have expected $*x\bar{o}/\gamma e/\theta t/\bar{\imath}$ for "you (sing.) saw them." As it is, "you (pl.) saw him" seems to be used also for "you (sing.) saw them," both forms being logically parallel in that both involve a second person—third person relation, only one of the two persons, however, being plural. Objective forms of indefinite tenses of this verb are:

With first person singular object:

```
d\bar{o}/wa/c/\gamma\bar{\imath}/\dot{\imath}^i/t'e "you'll see me" d\bar{o}/l\dot{a}/c/\gamma\bar{\imath}/\bar{\imath} "you didn't see me" c/\gamma\dot{\imath}/\bar{\imath} "see me!" c/\gamma a/\dot{\imath}^i/t'e "he'll see me"
```

With second person singular object:

```
d\bar{o}/wa/n/\gamma\dot{A}c/\bar{\imath} "I'll see you"
```

With third person singular object:

```
d\bar{o}/wa/\gamma Ac/\bar{\imath} "I'll see him" d\bar{o}/\gamma Ac/\bar{\imath} "I didn't see him" d\bar{o}/\gamma Ac/\bar{\imath} "I won't see him" d\bar{o}/wa/\gamma \bar{\imath}/t'e "you'll see him" \gamma t/\bar{\imath} "see him!" ta/\gamma t/\bar{\imath} "don't see him!"
```

Objective forms of indefinite tenses of ne-t-'ī "to look at" are:

With first person singular object:

```
ne/cit/\bar{\imath} "look at me!" ne/cit/\bar{\imath} "he looks at me"
```

With third person singular object:

 $n\acute{e}ct/\bar{\imath}$ "I'm looking at him" $d\bar{o}/n\acute{e}ct/\bar{\imath}$ "I'm not looking at him" $n\acute{e}t/\bar{\imath}$ "you're looking at him;" "look at him!" $n\acute{e}t/\bar{\imath}$ "let's look at him!" $n\acute{e}t/\bar{\imath}$ "you (plur.) look at him"

This last form may, likely enough, have been mistranslated for "you (plur.) look at them" (cf. $x\bar{o}/\gamma\acute{e}/\theta\bar{o}/\bar{\imath}$ above). Other forms with first person singular object are:

 $c\dot{A}s\dot{t}/s\bar{\imath}$ "he lets me, causes me to" $cAs\dot{t}/t'\dot{a}\dot{t}$ "he kicked me"

With second person singular object:

né/tc!ūc/lec "I'll bet you"

Passives. As in Hupa, pronominal subjects of passive verbs are objective in form. From ne-t-' $\bar{\imath}$ are formed:

 $n\acute{e}s/ts!At/\bar{\imath}$ "I am seen" $ne/n\dot{o}/ts!At/\bar{\imath}$ "we are seen" $n\acute{e}n/ts!At/\bar{\imath}$ "you are seen" $ne/n\dot{o}/ts!At/\bar{\imath}$ "ye are seen" $ne/n\dot{o}/ts!At/\bar{\imath}$ "ye are seen" $ne/n\dot{o}/ts!At/\bar{\imath}$ "they are seen"

ts/At-, which appears in these forms, probably contains third modal -t- preceded by deictic ts/- implying indefiniteness of logical subject: "man sieht mich." Apparently connected with this ts/At- is ts/At- in:

mał/t'é/tc!at/ts!al/lec "wherewith it is smoked, smoking utensils"

Verbal Suffixes. A number of enclitic elements of temporal or modal significance are found rather loosely suffixed to verb forms. These, so far as illustrated in our material, are:

-t'e future particle (cf. Hupa -te, -teL; Kato -teL, -tē/le): $\frac{AcL/\acute{a}z/t'e}{t'Ac/l\acute{a}t/t'e} \text{ "I shall sneeze"}$ $\frac{t'Ac/l\acute{a}t/t'e}{n\bar{a}/dAct/t!\acute{o}'/t'e} \text{ "I shall bathe"}$ $\frac{n\acute{e}ct/\bar{\imath}/t'e}{d\bar{o}/\gamma\acute{a}c/\bar{\imath}/t'e} \text{ "I won't see him"}$

```
nā/dAcL/nic/t'e "I shall work"
dō/nā/dAcL/nic/t'e "I shall not work"
tc!ácL/se/t'e "I shall cry"
dō/As/se/t'e "I'll not cry"
tc!āl/se/t'e "you will cry"
```

-t'e seems to imply obligation to some extent, as well as simple futurity, as is shown by its translation as "must" in some cases:

```
As/sé/t'e "he must cry"
t'Ac/yAc/t'e "I must go"
t'ī/yAc/t'e "you must go"
```

All forms with suffixed -t'e, it will be noticed, are indefinite; none has been found that is definite.

-nAt seems to be used for future acts:

```
d\bar{o}/w\dot{a}/An/n\bar{a}/yan/nAt "he will upset them" d\bar{o}/wa/t/t'\dot{a}t/nAt "they will be broken, go to pieces"
```

-ha, - $h\bar{a}$ interrogative:

```
n\bar{a}/xwil/ye/ha "are you playing?" t'e/\theta \dot{o}/lat/ha "have ye been sleeping?" n\bar{o}/\gamma e/\theta \dot{o}/\bar{i}/ha "did you see us?" net/\dot{i}/ha "did you look at him?" tc!\bar{a}/\theta il/se/ha "did you cry?" d\dot{o}/\bar{o}/se/ha "are ye not crying?" As/s\dot{e}/t'e/ha "will he cry?" tc!\bar{a}/\gamma \dot{a}l/se/t'e/ha "will ye cry?" t'' t''
```

ha seems to both precede and follow in:

```
ha/xwil/\hbar/ha "do you expect?"

-la probably inferential (cf. Hupa -x\bar{o}/lan, -x\bar{o}/l\hat{u}\tilde{n}):

t'e/\theta A\theta/lat/la "I've been sleeping" (said on waking up)

L\dot{a}\theta/\bar{a}/la "there was one (table)"

txAs/x\acute{e}/la "(evidently) rich"
```

Probably also in:

 $d\bar{o}/wi/la$ "of course"

-la seems also to be used of simple narrative in past time, with very weak, if any, inferential force:

 $tc!\bar{o}/\gamma it/siL/la$ "he pointed with his finger" $ye/\gamma at/ne/la$ "he bit it" $nAn/na\theta/y\bar{a}/la$ "he went around it" $n\bar{o}/\gamma e\theta/\bar{\imath}/la$ "he saw you (plur.)" (cf. $n\bar{o}/\gamma e\theta/\bar{\imath}$ "he saw us") $n\bar{o}/xA/\gamma e\theta/\bar{\imath}/la$ "they saw you (plur.)" (cf. $n\bar{o}/xA/\gamma e\theta/\bar{\imath}$ "they saw us") $x\bar{\imath}/\gamma e\theta/\bar{\imath}/la$ "they saw them" (cf. $x\bar{\imath}/\gamma e\theta/\bar{\imath}$ "they saw him")

I do not know whether the contrasts in person and number found in the last three pairs of forms are real or only apparent.

-le of unknown significance $n\bar{a}/x\bar{o}l/y\dot{e}/le$ "you (plur.) play"

SYNTACTIC COMBINATION OF VERBS. Two verb forms sometimes combine syntactically, one depending on the other. The second verb is subordinate to the first in:

don't want to play'' $h\bar{o}/\gamma_{ACL}/\bar{\iota} \gamma_{ACL}/l\bar{o}$ "I-stop I-laugh," i. e. "I stop laughing" $h\bar{o}/il/\bar{\iota} \gamma_{il}/l\bar{o}$ "stop laugh!" i. e. "stop laughing!"

 $d\bar{o}/ucL/t$ 'e $n\bar{a}/xwAcL/ye$ "I-do-not-want I-play," i. e. "I

 $ha/xwil/t/ha \gamma An/na/Ac$ "do-you-expect he-will bring?"

It seems that sometimes the first verb, which is then a third personal form, acts as a sort of complementary infinitive to the second:

 $y\bar{a}/\gamma t/t!a$ $\theta ict/s\bar{\imath}$ "he-flies I-make-him," i. e. "I let him fly"

 $y\bar{a}/\gamma t/t!a~cAst/s\bar{\imath}$ "he-flies he makes-me," i. e. "he lets me fly"

t/t't' $\gamma_{An/na/'à}$ "he-is-important he-has-for(?)," i. e. "he brags about him"

TEXT: THE GOOD DOG.56

1/t'f ⁵⁷	γAn/na/'à ⁵⁸	xá/dat ⁵⁹	lī/tc!é. ⁶⁰ dog.	dó/dat ⁶¹
Make important	he has	his own		"Nowherc
'An/t!e ⁶² is like him	nấ $/\gamma$ a 63 moves about,''	á/djan. ⁶⁴ he says.	dé/ucL/t'e ⁶⁵ "What I want	$rac{ ext{hf}/ ext{t}!i^{66}}{ ext{that thing}}$

⁵⁶ Wolverton Orton claimed not to know any regular Chasta Costa myth texts. The following, which is merely an English joke anecdote taken from a popular periodical that happened to be lying about and translated into Chasta Costa by Mr. Orton, will at least serve to give some idea of Chasta Costa word order and sentence construction.

 57 *l*-, third modal element. -*l*' $\bar{\imath}$, verb stem. Cf. Carrier $t\hat{\imath}l/th\hat{\imath}$ "thou makest him valuable, treatest him as important."

 $^{58}\gamma_{AR}$ - and na-, adverbial prefixes. -'a, verb stem. For na/a- "to have," cf. Hupa $na\tilde{n}/a/te$ "you will have." "He has his dog made valuable, treated as important," i. e., "he brags about his dog." Indefinite tense, because statement is general and does not refer to any one point of time.

⁵⁹ x-, third personal pronominal element. $-\bar{a}/dAt$, reflexive possessive element.

⁶⁰ Possessed form of $l\bar{\imath}$ "dog." Observe change of l- to l-, and suffixing of -tcle. Cf. Hupa $-li\tilde{\imath}/k(^{9}!)e$; Chipewyan Lin/k'e.

 61 $d\bar{o}$, negative adverb. -dAt, postpositive element.

 62 'a-, reduced from 'a-, prefix used with verbs of saying, doing, and being. It is probably equivalent to indefinite demonstrative: "(there is of) that (kind)." -n-, first modal element. -t!e, verb stem. Cf. Hupa $\hat{u}n/\underline{t}e$ "there is;" Kato $qn/t'\bar{e}$ "it is;" Chipewyan $an/t'e/h\bar{\imath}/k'e$ "it was." Indefinite tense, because statement is general.

wyan $an/t'e/h\bar{\imath}/k'e$ "it was." Indefinite tense, because statement is general.

63 $n\bar{a}$ -, adverbial prefix. - γa , verb stem. "Moves about," i. e., "is living, is to be found": "there is no (dog) like him anywhere." Cf. Hupa na/wa "they were there;" Kato na/ga/kwqn "he had walked;" Navaho na/Ga, i. e., $na/\gamma a$, "he is going about" (quoted from Goddard, Analysis of Cold Lake Dialect, Chipewyan). Indefinite tense; general statement.

 64 \bar{a} -, prefix used with verb of saying; see note 62. dj-, third personal deictic prefix; or perhaps $dj_{A^-} = {}^*dy_{A^-}$, reduced from ${}^*dy_{e^-}$, first modal prefix d- and third person deictic prefix y_{e^-} . -n, verb stem. Probably definite in tense, though it shows no second modal prefix; cf. Hupa present definite third singular a/den.

⁵⁵ de, apparently relative in force. u-, adverbial prefix. -c-, first person singular subjective element. -L-, third modal prefix. -t'e, verb stem. Indefinite tense; general statement.

 66 $h\bar{\imath}$, demonstrative stem. -t!i, suffix applying, it would seem, to things. Perhaps $h\bar{\imath}/t!i$ is assimilated from $^*h\bar{\imath}/t!a$; for -t!a, cf. Chipewyan t!a "that; often used to point out one of several persons or things characterized by a descriptive phrase or clause."

s/ts!An/na/'Ac67 ał/dac/nf/dan.68 dố t'wī/dè69 Lá ā/djan. to me he brings "Not everything," when I tell him." one $\frac{1}{1}$ / $\frac{1}$ $t'/\gamma 1/\bar{1}/\bar{1}.^{72}$ $man/mé/q!e^{71}$ xat q!w\u00e4t/tc!\u00e4t/dj\u00e473 Dog-owner around in house he looked around. Then table Lá $\theta/\bar{a}/la^{74}$ was/xé q!wát/da θ t/gàc⁷⁶ man/mé⁷⁵ nāheta/L!ố77 one there was in house. Good table-cloth, paper

 67 s-, assimilated from c-, objective (or possessive) first person singular pronominal element. -ts/an, postposition. na-, adverbial prefix. -'ac, verb stem. Cf. Hupa $d\bar{o}/-x\bar{o}/li\tilde{n}/na/ta/auw$ "he won't carry." Indefinite tense; general statement.

 68 a-, as in notes 62 and 64. -l-, postposition; refers to implied third person indirect object of verb. -d-, first modal prefix. -c-, as in note 65. - $n\bar{\imath}$, verb stem. -dAn, postposition; here used to subordinate verb. Cf. Hupa $\hat{u}n/niL/d\bar{u}\underline{w}/ne$ "I am telling you." Indefinite tense; general statement.

 69 $t^{\prime}w\bar{\imath}$, pronominal stem denoting totality. -de, indefinite demonstrative stem.

 70 $l\bar{\imath}$ "dog." $-tli/n\bar{\imath}$ "one who has;" evidently contains common Athabascan suffix -n, $-n\bar{\imath}$ "person."

 71 man "house." -me/qle, compound postposition.

 72 t'-, first modal prefix reduced from t'e-. $\gamma\bar{\imath}$ -, first modal prefix γ - reduced from γe -, $-\bar{\imath}$ - remaining unexplained. $-\bar{\imath}$, verb stem. According to this analysis, $t'/\gamma\bar{\imath}/\bar{\imath}$ is indefinite in tense; this seems hard to understand, as it refers to one act in past time. Another analysis seems more likely: t'-, instead of or misheard for t'e-, form regularly used in definite tenses; γ -, second modal prefix; $-\bar{\imath}$ -, definite third person ending for γ - verbs. Cf. Hupa $tcit/te/we/i\tilde{n}/il$ "he looked about as he went along."

73 qlwAt-, postposition "upon" used as adverbial prefix. tcl-, deictic prefix here indicating indefiniteness of object. -t-, third modal prefix presumably with passive force. -dja, from -ya after -t-, verb stem "to eat." "It is eaten thereon," i. e., "table."

 $^{74}L\bar{a}$, numeral "one," to which verb proper, $\theta/\bar{a}/la$, is attached. θ -, second modal prefix. \bar{a} -, verb stem. -la, verb suffix. Definite past tense, because referring to definite point of time in narrative. Cf. Chipewyan $\vartheta e/\tilde{a}/h\bar{\imath}/k'e/lai$ "(lake) was there."

 75 -me, postposition.

 76 q/w_At -, as in note 73. da-, adverbial prefix. θ -, second modal prefix. -t-, third modal prefix. -gAc, verb stem. Verb form ("it lies thrown on top") used as noun.

 77 $n\bar{a}$ -, adverbial prefix. θ -, second modal element. - $L!\bar{o}$, verb stem. Verb form ("whereon there is writing") used as noun.

 78 qlwAt-, as in note 73. da-, adverbial prefix. s-, second modal prefix. -L-, third modal prefix; doubtless original -l- changed to -l-, -L-, because of preceding s-, which in turn is prevented by it from changing to θ -. $-n\bar{a}$, verb stem. Definite past tense.

⁷⁹ Analysis uncertain, presumably demonstrative in force.

⁸⁰ mAl- "therewith" consists of pronominal stem m- followed by postposition -l-. t'e-, adverbial prefix. tcl-, deictic prefix indicating indefiniteness of object. -t-, consonant borrowed from following -tsl, to complete syllable begun by tcl-. tslAl-, apparently passive in force. -lec, verb stem. Verb form used as noun: "smoking materials."

txas/xé/la⁸¹ dő/at/t!ī.82 q!wát/te!at/djā xá s/ts!An/na/Ac He was rich bachelor. "Table quickly he'll bring to me," $dj\acute{a}n/la^{83}$ $l\ddot{i}/t l\ddot{i}/ni$. $d\acute{o}/LAn^{84}$ $xwAcL/\ddot{i}^{85}$ $dj\acute{a}n/la$ $d\acute{u}/at/t l\ddot{i}/n\ddot{i}$. "Not much dog-owner. I believe it," said $c\ddot{o}^u/dj\bar{\imath}.^{87}$ an/ γ $\dot{\imath}/aL^{88}$ d $\dot{\jmath}$ án/la l $\dot{\imath}^i/t!\bar{\imath}/ni$ tc! \bar{o}/γ $\dot{\imath}$ t-"Come here!" said dog-owner, he pointed né/tc!ūc/lec.86 "I'll bet you." $/\sin/\ln^{89}$ q!w\u00e4t/tc!at/dja łī łát/dan⁹⁰ $\rm nAn/n\acute{a}\theta/y\ddot{a}/la^{91}$ with his finger. Dog he went around. once $ye/\gamma at/ne/la^{92}$ mấ^a/dan.⁹³ lá dján/la dó/at/t!ī/ni xat at edge. "Don't!" he bit it Then said bachelor, t'wī/dé dō/wa/nā/yan/nał.⁹⁴ dō/wf/la⁹⁵ dján/la q!wát/tc!at/dja "Of course," he said, he will upset." "everything

 $^{^{81}}$ txAs/xe, adjective stem "rich;" perhaps related to wAs/xe "good." -la, verb suffix of probably inferential value.

 $^{^{82}}$ $d\bar{o}$, negative. at = att "wife." $-tt\bar{\iota}$, noun suffix denoting "one who has." "One who has no wife," i. e., "bachelor."

⁸³ djan, as in note 64. -la, verb suffix.

 $^{^{84}}$ $d\bar{o}$, negative. LAN, adverb "much."

 $^{^{85}}$ xw-, adverbial prefix. -c-, first person singular subjective pronominal element. -L-, third modal prefix; from -l-, because of preceding -c- (cf. note 98). $-\bar{\imath}$, verb stem. Indefinite present, negative adverb preceding.

⁸⁶ ne-, second person singular objective pronominal element. $tcl\bar{u}$ -, adverbial prefix; very likely really compound of deictic element tcl- (indicating lack of specified object, namely wager) and modal \bar{o} -, \bar{u} - denoting future imperative. -c-, as in note 85. -lec, verb stem. Indefinite present, because of future or slight hortatory meaning: "let me bet with you!" Cf. Chipewyan $t\bar{u}s/be$ "let me swim."

⁸⁷ With $c\bar{o}^{\mu}$ -, cf. Hupa $-h\underline{w}\bar{o}\tilde{n}$ "good;" Kato $-c\bar{o}\tilde{n}$ "to be good."

⁸⁸ an-, adverbial prefix. γ -, first modal prefix. $-\bar{\imath}$ -, second person subjective pronominal element. -aL, verb stem. Indefinite tense, used as imperative.

⁸⁹ $tcl\bar{o}$ -, adverbial prefix; perhaps compound of deictic element tcl- (object pointed out is not specified) and first modal \bar{o} - of unknown significance. γ -, second modal prefix. -i-, connecting element between second and third modal elements, characteristic of third person of definite tenses with γ -. -t-, third modal prefix. -siL, verb stem. -la, verb suffix. Definite past; marks point in narrative.

⁹⁰ Numeral adverb of la "one." -dan, postposition.

 $^{^{91}}$ nan- and na-, adverbial prefixes. $-\theta$ -, second modal prefix. $-y\bar{a}$, verb stem. -la, verb suffix. Definite past; refers to definite point of time in narrative.

 $^{^{92}}$ ye-, adverbial prefix. γa -, second adverbial prefix. -1-, third modal prefix. -ne, verb stem. -la, verb suffix. According to this analysis, this verb is indefinite in tense, which is difficult to understand. More plausibly, γat - may be considered as misheard for γAt -; γ - second modal prefix. In that case, it is definite past.

 $^{^{93}}$ $m\bar{a}^a$ -, noun stem "edge." -dAn, postposition.

 $^{^{94}}$ $d\bar{o}/wa$, proclitic adverb indicating futurity, probably not with absolute certainty. $n\bar{a}$ -, adverbial prefix. -yan, verb stem. -nal, verb suffix. Indefinite in tense, because future in meaning.

⁹⁵ Adverb containing inferential -la.

 $d\bar{o}/wa/t/t'\acute{a}t/nAt^{97}$ θ Ak/gwé dō/wá/An/nā/yan/nAł% t'wī/dé he will upset, everything will go to pieces, in fragments s/ts!An/na/Ac. ha/xwil/f/ha98 $AL/tca/\gamma i^{99}$ γ Án/na/Ác¹⁰⁰ he will bring to me. Do you expect he will bring here big thing WAS/Xe II. nā/nī/An¹⁰² nā/nī/An Good dog." "Stop him, stop him!" ła/mé/q!e/ca.¹⁰¹ dján/la all in one time? said $d\bar{o}/d\hat{a}/q!e^{103}$ dó/at/t!ī/ni. nā/nác/An¹⁰⁴ dján/la łi/t!i/ni "Unable bachelor. I stop him," said dog-owner, t'wī γ Án/na/Ac/t'e¹⁰⁵ xwAn/né/ θ iL/ya¹⁰⁶ djÁn/la dố/at/t \cdot Ī/ni. "You win," he will bring here." said bachelor

⁹⁶ As in note 94, except that another adverbial prefix, An-, is present.

 $^{^{97}}$ $d\bar{o}/wa$ and -nAt, as in note 94. t-, third modal prefix. -t at, verb stem.

 $^{^{98}}$ ha, interrogative adverb. xw-, adverbial prefix. -i-, second person singular subjective pronominal element. -l-, third modal prefix. $-\bar{\imath}$, verb stem. -ha, interrogative suffix. Indefinite present in tense.

 $^{^{99}}$ A-, of unknown significance. L-, prefix common to several adjectives. $-tc\bar{a}/\gamma\bar{\imath}$, adjective stem "big."

 $^{^{100}\}gamma An$ - and na-, adverbial prefixes. -Ac, verb stem. Indefinite tense, because pointing to future time.

 $^{^{101}}$ la, numeral stem "one." -me/qle, compound postposition. -ca, found also with la alone: $l\dot{a}^{a}/ca$ "one."

 $n\bar{a}$ -, adverbial prefix. n-, first modal prefix. $-\bar{\imath}$ -, second person singular subjective pronominal element. -An, verb stem. Imperative mode.

¹⁰³ Adverb containing negative $d\bar{o}$. Perhaps -q!e is postposition (cf. -me/q!e).

 $^{^{104}}$ $n\tilde{a}$ -, n-, and ^{-A}n , as in note 102. $^{-c}$ -, first person singular subjective pronominal element. Indefinite in tense, because of preceding negative adverb.

 $^{^{105}}$ As in note 100. - ^{t}e , future suffix; here used because idea of futurity is more explicit. 106 xwAn-, adverbial prefix. ne -, first modal prefix. θ -, second modal prefix. $^{-i}$ -, second person singular subjective pronominal element. - L -, third modal prefix. - ya , verb stem. Definite present in tense.

APPENDIX.

A few Galice Creek words were obtained from Mrs. Punzie, a few Applegate Creek words from Rogue River Jack. These two Athabascan dialects are probably practically identical. \dot{s} indicates something acoustically midway between s and c; r (tongue-tip trilled) and l occur as reflexes of Athabascan n; nasalization (indicated by ') seems to occur. k' and k'w are found as contrasted with Chasta Costa x and xw.

GALICE CREEK.

 $ya'/k'\dot{a}s$ "seeds (sp.?);" said to be called $b\dot{a}nax$ or $b\dot{q}yu$ in Chinook Jargon

 $tc!a/ba/\dot{a}/k$ 'wa's "brush used for medicinal purposes (sp.?)" $L!\ddot{o}'/d\dot{a}i$ "tar-weed" (cf. Chasta Costa $L!\ddot{o}'/d\acute{e}$; Hupa $L\ddot{o}/daitc$)

 $y\acute{e}t/\gamma at/ts!ai/y\dot{e}$ "sunflower" (cf. Chasta Costa $tc!At/\gamma at/ts!\dot{e}$) gus "camass" (cf. Chasta Costa $g\bar{o}\theta$; Hupa kos "bulbs")

 $d\hat{a}l/si$ "pine" (cf. Chasta Costa $d\hat{a}l/si$; Kato $d\hat{u}l/tc\bar{\imath}k$)

lå /L!i "pine-nut" (cf. Chasta Costa nå/L!e)

 $d\acute{e}/re\acute{s}$ "manzanita" (cf. Chasta Costa $dA/n\acute{a}c$; Hupa $din/n\~u\underline{w}$; Kato $t\^un/n\^uc$)

 $m\acute{a}'/t\acute{s}!i$ "cat-tail" (cf. Chasta Costa $mAt/tc!\acute{i}$)

 $\pm \acute{a} \acute{s}/da$ ' ''oak'' (cf. Chasta Costa $c \acute{a} c/d\bar{a}$ ')

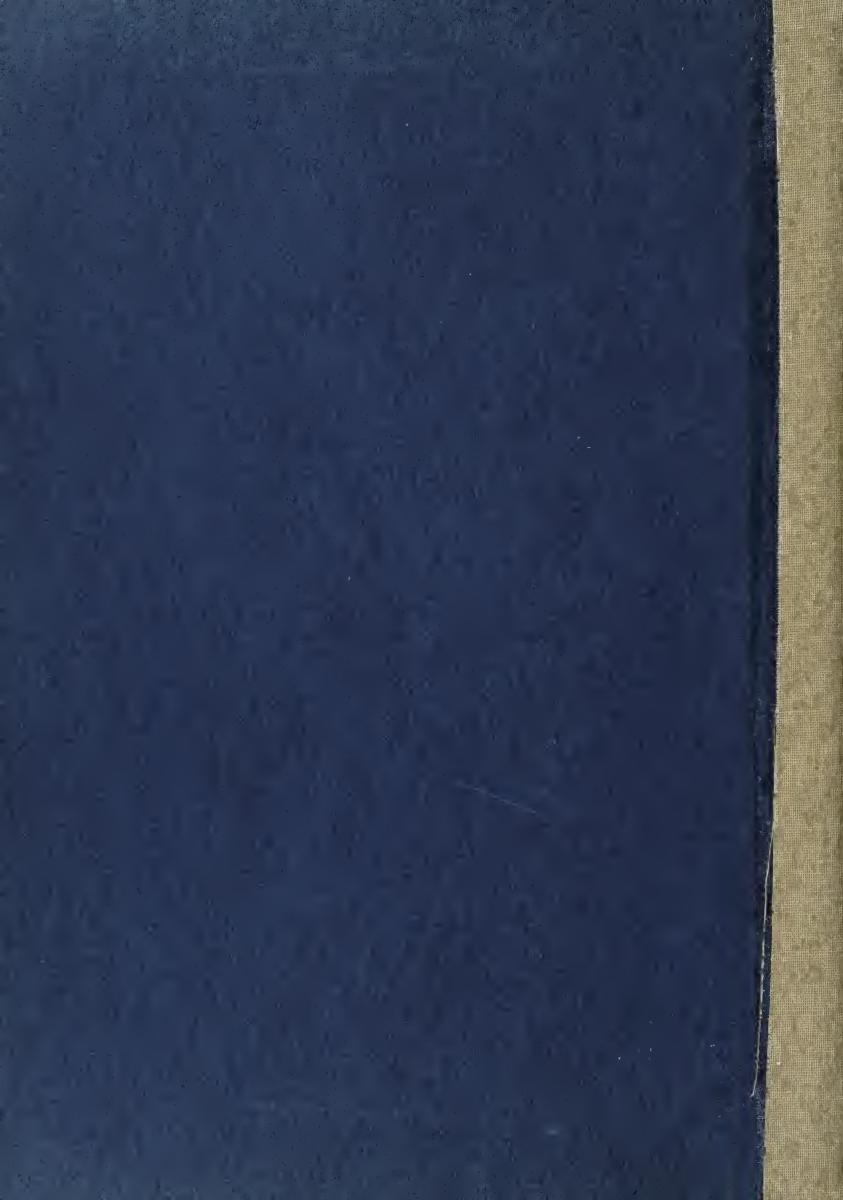
t/da/ge "acorn" (perhaps misunderstood; cf. Kato L/taG "black oaks")

APPLEGATE CREEK.

 $k'\acute{q}'/tc'u$ "goose" (cf. Chasta Costa $x\bar{a}'/tc'\acute{u}$; Kato ka') $d\acute{a}c/tc'\grave{u}$ "grouse" (cf. Chasta Costa $dAc/tc'\acute{u}$; Kato $d\acute{a}c/-tc\bar{o}$)

dAc/l'ê'/tc'u "bob-white, quail"
k!ai'/díc/tca/wè "ruffed grouse, pheasant"
k'án/ta/tc'u "pigeon" (cf. Kato kwī/yīnt)
dō/s'An/ts!a/ya "screech-owl"
st/tc!e/les "kingfisher"
tc!å/ke/di "red-headed woodpecker"
tcā'/wác/tc(!)e "sandhill crane" (cf. Chasta Costa sā'/wAs/ts!é)





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